MALAWI BUREAU OF STANDARDS

Promoting Standardization and Quality Assurance in Malawi

CATALOGUE OF MALAWI STANDARDS 2024

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INTRODUCTION

The Malawi Bureau of Standards (MBS) is a statutory organization established by an Act of Parliament Chapter 51:02 in 1972. It is charged with the preparation and promulgation of national standards with a view of helping the local industry to produce quality products and services, hence enabling them to compete effectively in world markets. Its work in standards, testing, quality assurance, metrology and export guidance is geared to enable local companies to meet quality needs of buyers at home and abroad. The Malawi standards listed in this catalogue have been approved by the Malawi Standards Board and are ready for implementation by any interested parties. The entries are in two parts. In part one, standards are arranged according to their serial numbers and the second part is a listing of the standards according to subject based on the International Classification for Standards. A list of draft standards - which are still at Committee stage – is contained in a separate publication, the MBS STANDARDS WORK PROGRAMME which is published twice annually.

THE MBS STANDARDS INFORMATION CENTRE

The MBS standards Information Centre, holds a wide collection of national (Malawi), international and foreign national standards, and other publications related to standardization. The Centre is open for search and reference materials during normal working hours, Monday to Friday, exception public holidays.

The Standards Information Centre also operates a Member Subscription Scheme for industries, institutions and individuals. Members of these schemes receive a variety of MBS publications which include MBS Newsletters, Annual Reports, Standards Catalogue, and Standards Work Programme in addition to being entitled to privileges which range from easy access to the library, to getting discounts on publications obtained from the MBS.

SALE OF MALAWI AND FOREIGN STANDARDS AND PUBLICATIONS

Malawi standards, foreign national and international standards and other publications may be obtained from the MBS Standards Information Centre on Ali Hassan Mwinyi Road, in Blantyre. Mail orders may be sent to the Director-General, Malawi Bureau of Standards, P O Box 946, Blantyre or E-mail: ***mbs@mbsmw.org***. The MBS, being the sole local sales agent for members of the International Organization for Standardization (ISO), also accepts orders for all foreign standards.

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MISSION OF THE MBS

MBS exists to promote standardization, quality assurance, and metrology services towards the strengthening of the economy of Malawi and towards enhancing the quality of life of its entire people.

THE BUSINESS OF MBS

In carrying out its mission, the MBS offers the following:

1. **Standards preparation:**

   Standards are prepared and updated in collaboration with interested groups through Technical Committees and public comments.

2. **Certification services**

   Quality Certification Scheme in respect of products and services that comply with national standards is offered to the industry for local or international trade.

3. **Technical information**

   The MBS-DIS provides information on local and international standards including technical regulations.

4. **Testing services**

   Products are tested or analysed to specifications.

5. **Metrology services**

   Verification and calibration of measuring equipment used monitoring weight and volume of prepacked commodities for retail.

6. **Industrial research, training and consultancy**

   The service is provided to cater for quality improvement of products and services and product development.

7 **Management systems certification**

   Certification Scheme for Quality Management Systems and food safety management systems conforming to MS-ISO 9001 and MS-ISO 22000, respectively.

8. **International liaison:**

   Fostering standardization activities through co-operation with national, Regional and international standards setting Organizations.

MBS STANDARDIZATION MARK

THE MBS QUALITY MARK

The Quality Mark is applied to a commodity that conforms with requirements in Malawi Standards.

A pre-certification mark shown below is applied to a product or its packaging to demonstrate its conformity with specifications of relevant Malawi Standard

Manufacturers wishing to apply the MBS quality mark on their commodities should contact:

Director General
Malawi Bureau of Standards
Ali Hassan Mwinyi Road
P. O. Box 946
Blantyre
Tel: +265 1870 488
0891376/444/445/446/447
E-mail: mbs@mbsmw.org

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OBJECTIVES OF THE MBS

The MBS Act outlines the following objectives, which have to be executed by the Organization in order to fulfil its mandate:

- **a.** To promote standardization in commerce and industry;
- **b.** To prepare and issue standards and to administer schemes based thereon;
- **c.** To make arrangements to provide facilities for testing and calibration of precision instruments, gauges and scientific apparatus, for the determination of their degree of accuracy by comparison with standards, approved by the Minister on the recommendation of the Board, and for the issue of certificates in regard thereto;
- **d.** To make arrangements or provide facilities in order to examine, test or analyze articles, materials and substances;
- **e.** To provide for testing of locally manufactured or imported commodities with a view to determine whether such commodities comply with the provisions of the MBS Act, the Merchandize Marks Act or any other law relating to standards of quality;
- **f.** To control the use of standardization marks;
- **g.** To encourage or undertake educational work in connection with standardization;
- **h.** To provide for cooperation with any person, association or organization outside Malawi having objects similar to those of the Bureau;
- **i.** To assist any ministry, Government department, local authority, other public authority or any statutory corporations in preparation and framing of the specifications or codes of practice required by it;
- **j.** To provide for corporation with the representatives of any branch of industry, ministry, Government Department, local authority, other public authority or any other statutory corporation or with any person with a view to bringing about standardization in connection with commodities;
- **k.** To asses quality systems and to administer the certification by such systems thus assessed;
- **l.** To supply reference material for specific purposes; and
- **m.** To perform, in so far as it is not repugnant to or inconsistent with the provisions of any written law, such functions as the Minister may assign to the Bureau, so as to promote and maintain standardization and quality regarding commodities.

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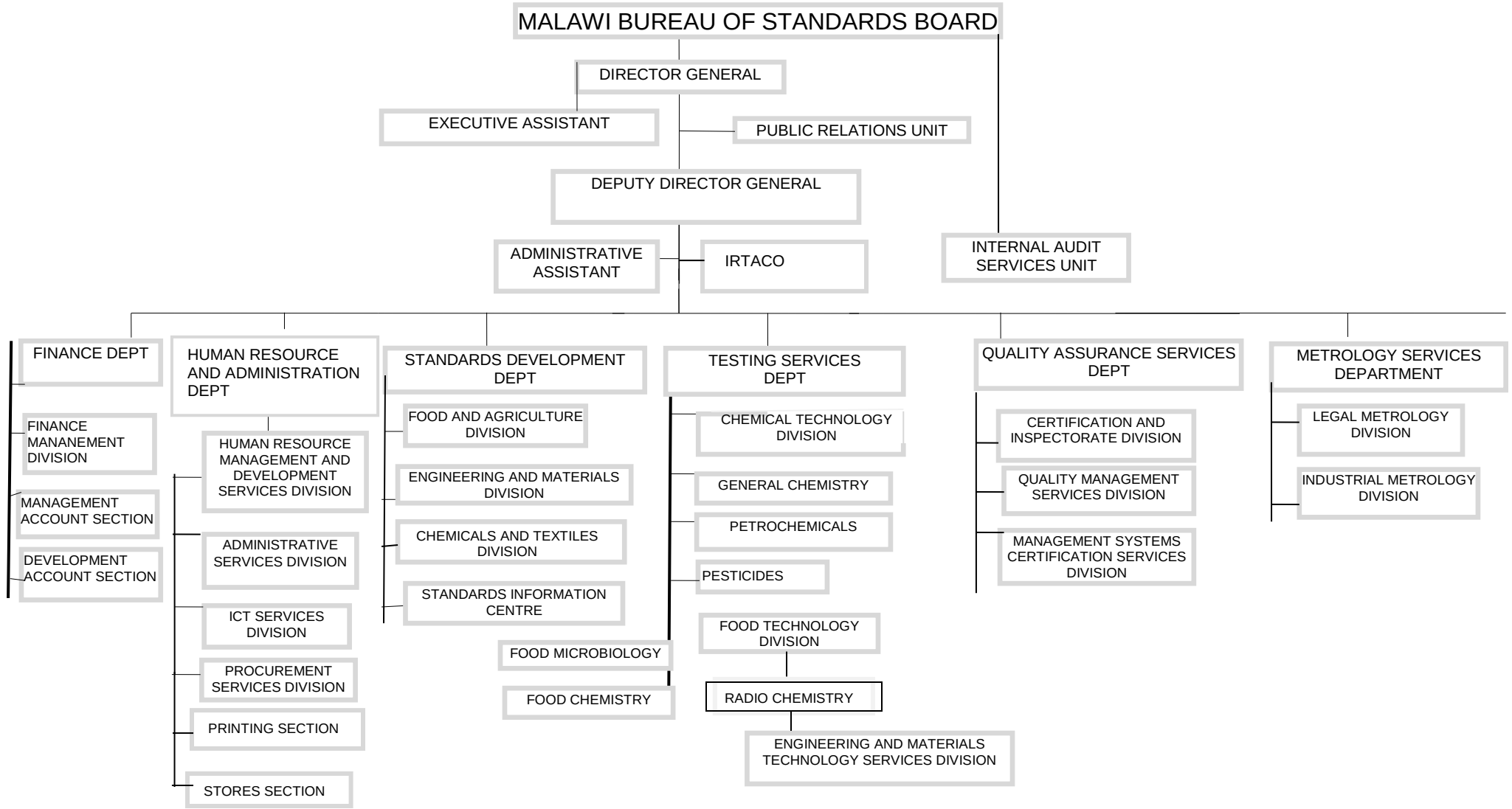

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LIST OF TECHNICAL COMMITTEES FOR STANDARDS DEVELOPMENT

Formulation of Malawi standards is done through Technical Committees whose membership Covers representatives from the industry, government, non-governmental organizations, professional bodies, consumers and other interested parties. Below is a list of the current Technical Committees:

MBS/TC 1	Basic standards
MBS/TC 2	Pipes and fittings
MBS/TC 3	Masonry and natural stones including bricks and tiles and stones
MBS/TC 4	Electrical installation and distribution systems
MBS/TC 5	Non edible oils
MBS/TC 6	Packaging
MBS /TC 7	National building regulations
MBS/TC 8	Spices, condiments and culinary herbs
MBS/TC 9	Cement, limes and their products
MBS/TC 10	Sugar and sugar products
MBS/TC 11	Alcoholic and non-alcoholic beverages
MBS/TC 12	Paints and allied products
MBS/TC 13	Industrial and laboratory chemicals
MBS/TC 14	Edible fats and oils
MBS/TC 15	Soaps and detergents
MBS/TC 16	Cereals, pulses, legumes and their products.
MBS/TC 17	Timber and timber products
MBS/TC 18	Tea, coffee and cocoa products
MBS/TC 19	Bread and confectionaries
MBS/TC 20	Petroleum and petroleum products
MBS/TC 21	Cook stoves, heaters and related appliances
MBS/TC 22	Farm implements and machinery
MBS/TC 23	Milk and milk products
MBS/TC 24	Cells and Batteries
MBS/TC 25	Leather and leather products
MBS/TC 26	Textile and textile products
MBS/TC 27	Fertilizers and other agricultural chemicals
MBS/TC 28	Cosmetics
MBS/TC 29	Electric lamps and wiring accessories
MBS/TC 30	Environmental protection and pollution control
MBS/TC 31	Salt
MBS/TC 32	Stationery and paper products
MBS/TC 33	Structural steel and steel products
MBS/TC 34	Meat, poultry and their products
MBS/TC 35	Kitchen ware excluding melamine, pottery and ceramic products
MBS/TC 36	Rubber and rubber products
MBS/TC 37	Pharmaceuticals and health care products
MBS/TC 38	Brush ware and dusters
MBS/TC 39	Fish and fishery products
MBS/TC 40	Metrology
MBS/TC 41	Tobacco and tobacco products
MBS/TC 42	Tourism and related services
MBS/TC 43	Traditional medicine

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MBS/TC 44	Plastics
MBS/TC 45	Iron monger and builders hardware
MBS/TC 46	Lifts and escalators
MBS/TC 47	Metal and metallic products and metallurgy
MBS/TC 48	Firefighting and fire protection equipment
MBS/TC 49	Transportation of dangerous goods
MBS/TC 50	Fruits, vegetables and their products
MBS/TC 51	Edible nuts and seeds and their products
MBS/TC 52	Animal feeds
MBS/TC 53	Root and tuber crops and their products
MBS/TC 54	Organic farming
MBS/TC 55	Laboratory glassware and related apparatus
MBS/TC 56	Disinfectants, antiseptics and bleaches
MBS/TC 57	Adhesives and resins
MBS/TC 58	Domestic insecticides
MBS/TC 59	Commercial explosives and pyrotechnics
MBS/TC 60	Glass and glazing materials
MBS/TC 61	Road construction and road signs
MBS/TC 62	Assistive products for persons with disabilities
MBS/TC 63	Road vehicles and accessories
MBS/TC 64	Welding and allied processes
MBS/TC 65	Wire and wire products
MBS/TC 66	Switchgear and distribution equipment
MBS/TC 67	Food hygiene
MBS/TC 68	Food labelling
MBS/TC 69	Water
MBS/TC 70	Apiculture products
MBS/TC 71	Nutrition and foods for special dietary uses
MBS/TC 72	Gases
MBS/TC 73	Transportation of dangerous goods
MBS/TC 74	Energy management systems
MBS/TC 75	Solar and wind technologies
MBS/TC 76	Broadcasting equipment
MBS/TC 77	Telephonic equipment and systems
MBS/TC 78	Hydro electricity generation
MBS/TC 79	Bioenergy
MBS/TC 80	Solid energy
MBS/TC 81	Cables and conductors
MBS/TC 82	Mining
MBS/TC 83	Electric tools, equipment and appliances
MBS/TC 84	Building and civil engineering
MBS/TC 85	Electronic appliances and accessories
MBS/TC 86	Computers, computer accessories and computer networking
MBS/TC 87	Electric machinery and related equipment
MBS/TC 88	Healthcare, medical devices and equipment
MBS/TC 89	Sanitation and water supply services
MBS/TC 90	Refrigeration and air conditioning
MBS/TC 91	Financial services
MBS/TC 92	Furniture

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LIST OF WITHDRAWN STANDARDS

Withdrawn standard		Replaced by
1.	MBS 1:1973	MS 18:1982
2.	MBS 3: 1976	MS 3:2004
3.	MBS 4:1976	MS 4:1993
4.	MBS 5:1976	MS 5:1993
5.	MBS 6:1979	MS 6:1994
6.	MBS 18:1982	MS 18:2010
7.	MBS 19:1982	MS 19:2001
8.	MBS 21:1984	MS 21:2002
9.	MBS 22:1984	MS 22:2010
10.	MBS 24:1994	MS 24:2020
11.	MBS 25:1994	MS 25:2019
12.	MBS 26:1994	MS 619:2016
13.	MBS 27:1984	MS 27:2019
14.	MBS 28:1994	MS 28:2019
15.	MBS 29:2001	MS 29 - 1:2021
16.	MBS 30:1985	MS 30:2011
17.	MBS 31:1985	MS 31:2014
18.	MBS 32:1998	MS 32:2017
19.	MBS 34:2002	MS 34:2011
20.	MBS 37:1995	MS 37:2002
21.	MS 43:2013	MS 43:2020
22.	Ms 45:2001	Ms 45:2023
23.	MBS 44:1996	MS 44:2004
24.	MBS 48:1986	MS 48:2006
25.	MBS 50:1988	MS 50:2018
26.	MBS 51:2011	MS 51:2019

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Withdrawn standard		Replaced by
27.	MBS 52:1986	MS 52:2000
28.	MS 53:2001	MS 53:2020
29.	MS 62:1994	MS 62:2023
30.	MBS 63:1987	MS 63:2019
31.	MBS 57:1987	MS 619:2016
32.	MBS 70:1987	MS 70:2023
33.	MS 71:2000	MS 71-1:2021
34.	MS 71:2000	MS 71-2:2021
35.	MBS 75-1:1998	MS 75-1:2018
36.	MBS 75-2:1998	MS 75-2:2018
37.	MBS 84:1986	MS 84:1991
38.	MBS 90:1988	MS 90:2018
39.	MBS 92:1986	MS 92: 2013
40.	MBS 96:1986	MS 96:2014
41.	MBS 97:1988	MS 97:2013
42.	MBS 103:1988	MS 103:1993
43.	MBS 105:1988	MS 105:1995
44.	MBS 111:1998	MS 111:2018
45.	MS 115:2002	MS 115:2018
46.	MS 116:2002	MS 116:2018
47.	MS 117:2002	MS 117:2020
48.	MBS 123:1988	MS 123:1998
49.	MBS 145:1987	MS 145:2022
50.	MBS 153:1988	MS 153:2014
51.	MBS 154:1988	MS 51:2011
52.	MBS 170:2004	MS 170:2012
53.	MBS 177:1988	MS 177:2016
54.	MBS 178:1988	MS 178:2018
55.	MS 179:2010	MS 179:2017

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Withdrawn standard		Replaced by
56.	MBS 187:1993	MS 187:1999
57.	MS 188:2008	MS 188:2022
58.	MS 189:2009	MS 189:2020
59.	MBS 201:1989	MS 201:2015
60.	MBS 202:2011	MS 202: 2013
61.	MS 205:2016	MS 205:2022
62.	MBS 209:2011	MS 209: 2013
63.	MBS 212:1995	MS 212:2014
64.	MS 213:1990	MS 213:2022
65.	MS 214:2005	MS 214:2013
66.	MBS 225:1995	MS 225:2013
67.	MS 226:1990	MS 226:2020
68.	MS 227:1990	MS 227:2021
69.	MS 228:1990	MS 228:2014
70.	MS 228:2014	MS 228:2022
71.	MBS 230:1990	MS 230:2016
72.	MS 231:1990	MS 213:2020
73.	MS 234:1993	MS 234:2018
74.	MBS 240:1995	MS 240:2017
75.	MBS 242:1991	MS 244:2020
76.	MBS 244:1991	MS 244:2017
77.	MS 244:2017	MS 244:2022
78.	MBS 245:1991	MS 245:2016
79.	MBS 248:1991	MS 619:2016
80.	MBS 249:2012	MS 249:2020
81.	MBS 251:1991	MS 251:2002
82.	MBS 252:1991	MS 252:2002
83.	MBS 253:2000	MS 253-1 2016/MS 253-2:2016
84.	MBS 255:1998	MS 255:2020

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Withdrawn standard		Replaced by
85.	MBS 258:1991	MS 258:2020
86.	MBS 265:1991	MS 265:2020
87.	MBS 267:1991	MS 267:2004
88.	MS 271:2000	MS 271:2020
89.	MBS 272:1991	MS 272:2000
90.	MS 276:2013	MS 276:2019
91.	MBS 280:1991	MS 280:2013
92.	MS 289-1:1991	MS 289-1:2017
93.	MS 289-2:1991	MS 289-1:2017
94.	MBS 294:1991	MS 619:2016
95.	MBS 295:1991	MS 619:2016
96.	MBS 296:1991	MS 619:2016
97.	MBS 297:1991	MS 619:2016
98.	MBS 298:1991	MS 298:2000
99.	MBS 304:1991	MS 304:2014
100.	MS 306:1991	MS 306:2017
101.	MBS 315:1991	MS 315:2003
102.	MS 349:2017	MS 349:2021
103.	MS 351:2000	MS 351:2020
104.	MS 352:2000	MS 352:2020
105.	MS 353:2000	MS 353:2020
106.	MS 353:2000	MS 351:2020
107.	MS 354:2000	MS 354:2020
108.	MS 355:2000	MS 355:2020
109.	MS 366:2010	MS 366:2022
110.	MS 374-1:1992	M 374-1:2023
111.	MS 374-2:1992	MS 374-2:2023
112.	MS 400:1995	MS 400:2020
113.	MS 410:1994	MS 410:2020

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Withdrawn standard		Replaced by
114.	MS 412:1994	MS 412:2020
115.	MBS 414:1992	MS 414-1:2002
116.	MS 459:1994	MS 459:2020
117.	MS 478:2016	MS 478:2022
118.	MBS 489:1995	MS 489-1-2:2012
119.	MBS 509:1995	MS 509:2010
120.	MS 538:2008	MS 538:2023
121.	MS 544:2014	MS 544:2023
122.	MBS 554:1996	MS 554:2016
123.	MS 557:2001	MS 557:2013
124.	MBS 569:1995	MS 569:2013
125.	MS 619:2000	MS 619:2016
126.	MS 617-1:1998	MS 617-1:2018
127.	MS 617-2:1998	MS 617-2:2018
128.	MS 617-3:1998	MS 617-3:2018
129.	MS 623:1995	MS 623:2017
130.	MS 624:2001	MS 624:2023
131.	MS 625:2001	MS 624:2023
132.	MS 633:2001	MS 633:2022
133.	MS 663:2001	MS 619:2016
134.	MS 639-1:1997	MS 639-1:2011
135.	MS 639-2:1997	MS 639-2:2011
136.	MS 665:2001	MS 619:2016
137.	MS 737:2011	MS 737-1:2021
138.	MS 751:2006	MS 751:2022
139.	MS 752:2006	MS 752:2022
140.	MS 7532008	MS 753:2023
141.	MS 786:2008	MS 786:2016
142.	MS 798:2009	MS 798:2021

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Withdrawn standard		Replaced by
143.	MS 714:2005	MS – ISO 45001:2018
144.	MS 744:2007	MS 744:2020
145.	MS 745:2014	MS 745:2022
146.	MS 751:2006	MS 51:2022
147.	MS 807:2011	MS 807:2020
148.	MS 858:2011	MS 858:2023
149.	MS 896:2013	MS 896:2021
150.	MS-ISO 9000:2005	MS-ISO 9000:2015
151.	MS –ISO 9001:2008	MS –ISO 9001:2015
152.	MBS-ISO 9004-1:1994	MS-ISO 9004:2000
153.	MS 1236:2016	MS 1236:2022
154.	MS 1275:2016	MS 1275:2022
155.	MS-ISO 10005:2005	MS-ISO 10005:2018
156.	MS-ISO 10006:2006	MS-ISO 1006:2017
157.	MS – ISO 100013:2001	MS –ISO 10013:2021
158.	MS-ISO 14001:2004	MS-ISO 14001:2015
159.	MS-ISO 15189:2007	MS-ISO 15189:2022
160.	MS-ISO 17021:2011	MS-ISO 17021-1:2015
161.	MS-ISO 17025:2005	MS-ISO 17025:2017
162.	MS –ISO 22000:2005	MS-ISO 22000:2018

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CERTIFIED FOR QUALITY

The Malawi Bureau of Standards offers assurances of quality of local products through third party certification. The ***MBS Mark of Quality*** assures the consumers of quality, gives vendors product confidence, the country a high quality of living, and the MBS service satisfaction.

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STANDARDS AND QUALITY ASSURANCE

KEY TO INDUSTRIAL DEVELOPMENT

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PRICE LIST OF MALAWI STANDARDS

(Effective 1st April 2018)
The following is the price list for Malawi Standards categorized on page number

Category	Number of pages	Local Price (MK)	+ 16.5% Sur-tax (MK)	Total Price
A	1 – 2	7,725.32	1,274.68	9,000.00
B	3 – 4	9,012.88	1,487.12	10,500.00
C	5 – 6	10,300.43	1,699.57	12,000.00
D	7 – 8	11,587.98	1,912.02	13,500.00
E	9 – 10	12,875.54	2,124.46	15,000.00
F	11 – 13	12,875.54	2,124.46	15,000.00
G	14 – 16	15,450.54	2,549.36	18,000.00
H	17 – 19	16,738.20	2,761.80	19,500.00
I	20 – 22	16,738.20	2,761.80	19,500.00
J	23 – 25	18,025.75	2,761.80	19,500.00
K	26 – 28	19,313.30	2,974.25	21,000.00
L	29 – 30	19,313.30	3,186.70	22,500.00
M	31 – 35	19,313.30	3,186.70	22,500.00
N	36 – 40	19,313.30	3,186.70	22,500.00
O	41 – 45	20,600.86	3,186.70	22,500.00
P	46 – 50	20,600.86	3,399.14	24,000.00
Q	51 – 60	20,600.86	3,399.14	24,000.00
R	61 – 70	21,888.41	3,399.14	24,000.00
S	71 – 80	21,888.41	3,611.59	25,500.00
T	81 – 90	24,463.52	3,611.59	25,500.00
U	91 – 100	25,751.07	4,036.48	28,500.00
V	101 – 120	25,751.07	4,248.93	30,000.00
W	121 – 140	25,751.07	4,248.93	30,000.00
X	141 – 160	27,038.63	4,248.93	30,000.00
Y	161 – 180	27,038.63	4,461.37	31,500.00
Z	181 – 200	27,038.63	4,461.37	31,500.00
AA	201 – 225	27,038.63	4,461.37	31,500.00
AB	226 – 250	28,326.18	4,673.82	33,000.00
AC	251 – 275	30,901.29	5,098.71	36,000.00
AD	276 – 300	30,901.29	5,098.71	36,000.00
The following is the price list for Malawi Standards including adopted International standards. The prices are based on the number of pages in a standard. "Please note that IEC Standards are available to the public at the MBS Standards Information Centre for reference only. MBS shall link you to the IEC if you need to purchase a copy.				

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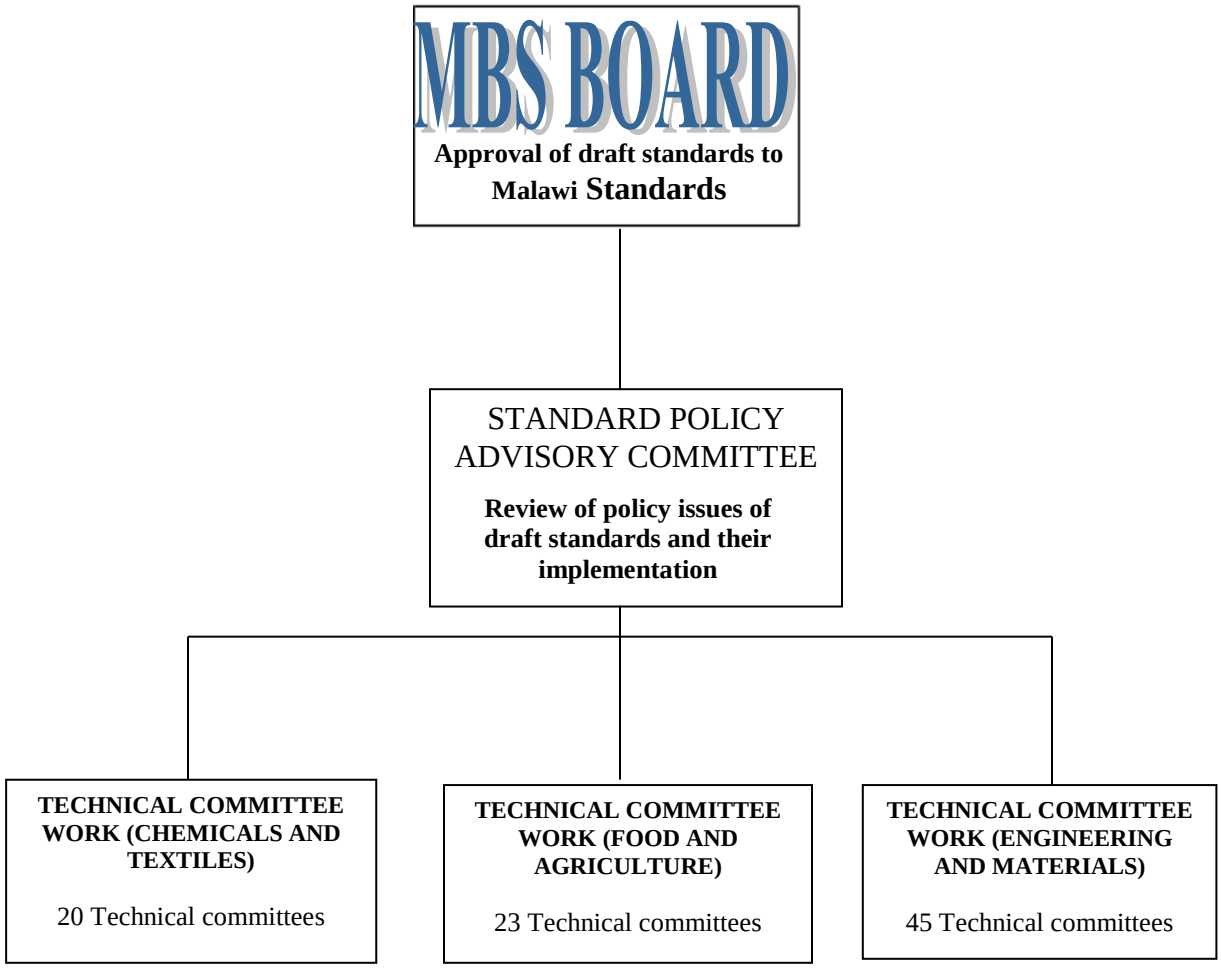
STANDARDS DEVELOPMENT PATHWAY



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MALAWI STANDARDS

PART 1

NUMERICAL LIST OF MALAWI STANDARDS

MS 2:1976 NON-METALLIC CONDUIT AND FITTINGS (FOR ELECTRICAL WIRING) – SPECIFICATION (1 p) M

Covers conduits and fittings manufactured from non-metallic materials. It is basically for conduits and fittings of unplasticized polyvinyl chloride, but also applies to conduits which meet the requirements of the specification.

MS 3:2004 UNPLASTICIZED POLYVINYL CHLORIDE, (UPVC) SEWER AND DRAIN PIPES AND PIPE FITTINGS – SPECIFICATION (Third edition) (32 p) M

Covers two duties (normal and heavy) of unplasticized poly(vinyl chloride) (PVC-U) pipes of nominal sizes 110-630 mm and one duty of PVC-U pipe fittings of nominal sizes 110 mm and 160 mm, intended for underground non-pressure applications in the construction of sewers and drains where temperatures continuously in excess of 60 ^{o}C are not encountered.

MS 4:1993 UNPLASTICIZED POLYVINYL CHLORIDE (UPVC) TYPE 1, PRESSURE PIPES AND FITTINGS (FOR COLD WATER SERVICES) – SPECIFICATION (Second Edition) (21 p) M

Covers unplasticized polyvinyl chloride type 1 pipes and injection moulded fittings intended for cold water services under pressure at ambient temperature not below 25°C.

MS 5:1993 UNPLASTICIZED POLYVINYL CHLORIDE (UPVC) PIPES AND PIPE FITTINGS FOR USE ABOVE GROUND IN DRAINAGE INSTALLATIONS – SPECIFICATION (Second Edition) (14 p) M

Covers unplasticized polyvinyl chloride pipes and injection moulded pipe fittings intended for use above-ground non-pressure applications (such as soil water, waste water and ventilating pipes) where continuous temperatures in excess of 60 ^{o}C are not encountered.

MS 6:1994 BURNT CLAY BRICKS – SPECIFICATION (Second Edition) (12 p) M

Covers bricks made from clay, brick-earth or shale, and hardened by firing.

MS 7:1980 UNPLASTICIZED POLYVINYL CHLORIDE (UPVC) PIPES INSTALLATION – CODE OF PRACTICE (30 p) M

Presents the comparative physical, chemical, and mechanical properties of unplasticized polyvinyl chloride pipes in common use, to provide guidance in their selection for applications and to define sound practice in fabrication and installation of such pipe work.

MS 8:1980 MANUALLY OPERATED AIR BREAK SWITCHES – SPECIFICATION (24 p) M

Covers the following types of manually operated air-break switches rated at not more than 60 amperes and 250 volts to earth, or 30 amperes and 660 volts between poles.

MS 9:1980 PLUGS, SOCKET OUTLETS AND SOCKET OUTLET ADAPTORS – SPECIFICATION (14 p) M

Covers three-pin plugs, socket outlets and socket outlet adaptors intended for use at nominal statutory supply voltage to earth, and current not exceeding 15 amperes, and intended for use in household and similar purposes

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MS 11:1981 ARTIFICIAL VINEGAR – SPECIFICATION (2 p) M

Applies to artificial vinegar produced from glacial acetic acid and water with or without caramel as a colouring matter and intended for use as a condiment.

MS 12:1981 VINEGAR – METHODS OF TEST (2 p) V

Specifies methods of test for vinegar intended for use as condiments.

MS 13:1981 GLASS-REINFORCED POLYESTER (GRP) LAMINATED PRODUCTS – SPECIFICATION (8 p) M

Covers requirements for products of the following two types manufactured from glass-reinforced polyester (GRP) laminated products by means of contact moulding at pressures not exceeding one bar: Types S and F.

MS 14:1981 GLASS-REINFORCED POLYSTER (GRP) LAMINATED SHEETS (PROFILE OR FLAT) – SPECIFICATION (5 p) M

Covers the requirements for two types of profile or flat sheets made of glass-reinforced (GRP) laminates. It does not cover moulded canopies or curved sheets.

MS 15:1984 FLEXIBLE CORDS FOR POWER AND LIGHTING APPLIANCES – SPECIFICATION (11 p) M

Covers flexible cords for use on domestic appliances requiring an electrical voltage not exceeding 300 V to earth, including non-domestic appliances available for operation by members of the public.

Flexible cords used for the internal wiring of electrical apparatus, pre-wired pendant cords for the static suspension of lighting fittings, cords with more than seven conductors, tinsel and screened flexible cords and cords for use in circuits not exceeding 40 V to earth, are excluded from the requirements of the specification.

MS 16:1984 APPARATUS CONNECTOR FOR PORTABLE DOMESTIC APPLIANCES – SPECIFICATION (6 p) M

Covers apparatus connectors, inlet sockets and inlet plugs, intended to form detachable connectors between single-phase portable domestic electrical appliances and flexible cords for the operation of such appliances at voltage not exceeding 250 volts.

MS 17:1984 SAFETY OF ELECTRICAL APPLIANCES – SPECIFICATION (48 p) M

Covers the safety of electrical cooking, heating, motor-operated and magnetically controlled domestic appliances for use at voltage above 42 V and not exceeding 250 V to earth. It also covers other electrical appliances, for use in that voltage range, that are available to members of the public for use in circumstances not covered by specific safety legislation.

MS 18:2010 CARBONATED SOFT DRINKS – SPECIFICATION (Second Edition) (8 p) M

Specifies requirements for carbonated soft drinks. The standard does not cover requirements for fruit juices, fruit flavoured drinks and comminuted fruit drinks.

MS 19:2001 LABELLING OF PREPACKED FOODS – GENERAL STANDARD (7 p) M

Covers the general requirements for labeling of all pre-packed foods to be offered as such to the consumer. (Specific requirements for different foods are contained in respective food standards).

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MS 20:1983 BLOW MOULDED PLASTIC CONTAINERS UP TO 5 LITRES CAPACITY – SPECIFICATION (8 p) M

Covers minimum requirements for plastic containers of nominal capacity up to 5 litres intended for storage of commodities other than explosives, compressed gases and radio-active materials.

MS 21:2002 FOOD AND FOOD PROCESSING UNITS – CODE OF HYGIENIC CONDITIONS (17 p) M

Provides a basis for establishing code of hygienic practice, which will ensure uniformity in the hygienic handling and maintaining of commodities and processing units.

MS 22:2010 CARBONATED SOFT DRINKS – METHODS OF TEST (Second Edition) (20 p) V

Specifies methods of test for carbonated soft drinks.

MS 23:1984 PROCESSED FRUITS AND VEGETABLES – METHODS OF TEST (8 p) V

Prescribes the methods of sampling and test for processed fruits and vegetables.

MS 24:2020 CANNED PINEAPPLES – SPECIFICATION (Second Edition) (7 p) M

Specifies the requirements and methods of sampling and test for canned pineapples.

MS 25:2019 TOMATO CONCENTRATES (TOMATO PUREE AND PASTE) - SPECIFICATION (Second Edition) (9 p) M

Prescribes the requirements and methods of sampling and test of processed tomato concentrates offered for direct consumption including for catering purposes or for repacking if required.

MS 27:2019 TOMATO SAUCE AND KETCHUP – SPECIFICATION (Second Edition) (9 p) M

Prescribes the requirements and the methods of sampling and test for tomato ketchup.

MS 28:2019 PRESERVED TOMATOES – SPECIFICATION (Second Edition) (9 p) M

Prescribes the requirements and the methods of sampling test for preserved tomatoes, and offered for direct consumption, including for catering purposes or for repacking if required.

MS 29-1:2021 CEMENT PART 1: COMPOSITION, SPECIFICATIONS AND CONFORMITY CRITERIA FOR COMMON CEMENTS (Third Edition) (24 p) M

Defines and gives the specifications of 27 distinct common cements, 7 sulphate resisting common cements as well as 3 distinct low early strength blast furnace cements and 2 sulphate resisting low early strength blast furnace cements and their constituents.

The definition of each cement includes the proportions in which the constituents are to be combined to produce these distinct products in a range of nine strength classes. The definition also includes mechanical, physical, and chemical requirements. Furthermore, this standard states the conformity criteria and the related rules. Necessary durability requirements are also given.

MS 29-5:2022 CEMENT PART 5: PORTLAND – COMPOSITE CEMENT CEM LL /C – M AND COMPOSITE CEMENT CEM VI (5p) (First Edition)

Deals with Portland-composite cement CEM II-C/M, not covered by MS 29-1, and a new type of composite cement, CEM VI, also not covered by MS 29-1,whose intended use is the preparation of concrete, mortar, grout etc.

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MS 30:2011 FORTIFIED WHEAT FLOUR – SPECIFICATION (Third Edition) (9 p) M

Applies to wheat flour for direct human consumption prepared from common wheat, *Triticum aestivum* L., or club wheat, Triticum compactum Host, or mixtures thereof, which is prepackaged ready for sale to the consumer or destined for use in other food products.

MS 31:2015 COMMON BREAD – SPECIFICATION (Second Edition) (14p) M

Prescribes the requirements and methods of test for white bread, brown bread, wholemeal bread and enriched bread.

MS 32:2017 MAIZE GRAIN – SPECIFICATION (Third Edition) (5 p) M

Applies to maize (corn) for direct human consumption, i.e ready for its intended use as human food, presented in packed form or solid loose from the packed direct to the consumer. The standard specifies requirements for whole grain shelled dent maize (*Zea mays* Indentata L) and/or shelled flint maize (*Zea mays* Induranta L).

MS 33:1985 CANDLES – SPECIFICATION (2 p) M

Prescribes the requirements and methods of test for candles.

MS 34:2011 FORTIFIED MAIZE FLOUR (UFA) – SPECIFICATION (Third Edition) (7 p) M

Prescribes requirements and methods of sampling and analysis for maize (*Zea mays* L.) flour or meal (ufa) intended for human consumption.

MS 35:1986 PRIMARY DRY BATTERIES – SPECIFICATION (8 p) M

Lays down specifications, dimensions, tests and requirements of single cell leclanche type dry batteries and applies to batteries of designations R6, R14, and R20 for use in flashlights, transistor radio receivers, hearing-aids and other electronic appliances where high current is not desired.

MS 36:2012 WOOD ADHESIVES - TERMINOLOGY AND CLASSIFICATION (16p) M

Covers the definition of terms relating to adhesives for wood and the classification of adhesives for wood according to their inherent properties.

MS 37:2002 PRESERVATIVE–TREATED TIMBER – SPECIFICATION (15 p) M

Specifies requirements of treated timber (other than the method of treatment) for preservative-treated timber and timber products (other than composite board products and timber products) at various levels of preservative treatment that are considered to be acceptable for a range of hazard conditions.

MS 38:1995 UNPLASTICIZED POLYVINYL CHLORIDE (UPVC) RIGID CONDUIT AND FITTINGS FOR USE IN ELECTRICAL INSTALLATIONS – METHODS OF TEST (13 p) V

Outlines methods of test for assessing compliance of UPVC rigid conduit and fittings for electrical installations with relevant performance requirements.

MS 40:2000 DETERGENT SKIN CLEANSER - SPECIFICATION (12p) M

Covers two types of detergent skin cleansers for personal hygiene that are suitable for use in detergent dispensers.

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MS 42:2003 BATHING BARS – SPECIFICATION (7p) M

Prescribes requirements and methods of sampling and test for bathing bars.

MS 43:2020 BLACK TEA – DEFINITION AND BASIC REQUIREMENTS (Fourth Edition) (4 p) M

Specifies the parts of a named plant that are suitable for making black tea for consumption as a beverage and the chemical requirements for black tea that are used to indicate that tea from that source has been produced in accordance with acceptable practice.

MS 44:2004 TIMBER, THE PRESERVATIVE TREATMENT – CODE OF PRACTICE (17 p) M

Covers the classification of timber preservatives, hazard conditions for timber, the solvents used for timber preservatives, the preparation of timber for treatment and the various treatment processes for timber. Recommendations relating to the handling and safety of preservative-treated timber are also given.

MS 45:2001 LUBRICATING GREASE – SPECIFICATION (Second Edition) (9 p) M

Covers the performance requirements of four classes of lubricating grease namely, industrial non-extreme pressure, industrial high performance extreme pressure, and automotive non-extreme pressure, each in four consistency grades, and all of which can contain suspended solid lubricants

MS 46:1996 ADHESIVES FOR THE LAMINATING AND FINGER-JOINTING OF TIMBER FOR FURNITURE AND JOINERY, PHENOLIC AND AMINOPLASTIC RESIN – SPECIFICATION (7 p) M

Covers the chemical, physical and performance requirements for three exposure classes of resin adhesives for wood, supplied in liquid or powder form, and based on the chemical reaction with formaldehyde of melamine, urea, melamine-urea compounds, or phenolic compounds. The specification does not cover adhesives supplied in film form.

MS 48:2006 CARBOLIC SOAP – SPECIFICATION (Second Edition) (5 p) M

Specifies requirements for carbolic soap for personal hygiene, which contains additions of phenolic substances such as cresylic acid.

MS 49:2006 TOILET SOAP – SPECIFICATION (Second Edition) (4 p) M

Specifies the requirements for toilet soap for personal hygiene. It does not provide for specialty soaps, such as medicated soaps.

MS 50:2018 BEER – SPECIFICATION (Second Edition) (4 p) M

Specifies the requirements and methods of sampling and test for beer.

MS 51:2019 FORTIFIED EDIBLE OILS – SPECIFICATION (Fourth Edition) (7 p) M

Specifies requirements for fortified refined edible oils derived from oil seeds and oil-bearing fruits. These oils are suitable for use as cooking oils and salad oils.

MS 52:2000 LIQUID TOILET SOAP – SPECIFICATION (2 p) M

Prescribes the requirements of liquid toilet soap for personal hygiene.

MS 53:2020 CHILLI SAUCE – SPECIFICATION (5 p) M

Prescribes requirements and methods of sampling and test for chilli sauce for human consumption.

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MS 55:1990 WHEAT GRAIN – SPECIFICATION (4 p) M

Specifies requirements, methods of sampling and analysis for wheat belonging to the species *Triticum aestivum* and *Triticum durum*, which are intended for human consumption.

MS 56:1990 EDIBLE OILS AND FATS – METHODS OF ANALYSIS (8 p) V

Refers to methods of analysis that are applicable to fats and oils which are liquid and which do not deposit stearin at the temperature of determination

MS 59:2002 SOLID WASTE – HANDLING, TRANSPORTATION AND DISPOSAL – CODE OF PRACTICE (12 p) M

Prescribes the recommended procedure for the handling, transportation and disposal of solid waste to ensure safety of operatives, passers-by, animals and the environment.

MS 60:1989 SOAPS – METHODS OF ANALYSIS (17 p) V

Describes the methods of test for soaps and detergents

MS 62:2023 DOMESTIC SOLAR WATER HEATING SYSTEMS WITH STORAGE - SPECIFICATION (Second Edition)(19p) M

Specifies the requirements for integral, close-coupled and split domestic storage solar water heating systems and includes specifies requirements of solar collectors for solar water heating systems.

MS 63:2019 VEGETABLE GHEE – SPECIFICATION (Second Edition) (3 p) M

Prescribes the requirements and methods of sampling and test for vegetable ghee.

MS 64:1987 MIXED ANIMAL AND VEGETABLE GHEE – SPECIFICATION (1 p) M

Applies to any product described as mixed animal and vegetable ghee, fully processed and made fit for human consumption.

MS 65:2016 SOAP POWDER OR CHIPS – SPECIFICATION (Second Edition) (15p) M

Specifies requirements and methods of tests for four types of soaps for use in laundries.

MS 66:2003 ANTIBACTERIAL LIQUID TOILET SOAP – SPECIFICATION (6p) M

Covers two types of Antibacterial liquid toilet soap for medical use that are suitable for use in liquid dispensers

MS 70:2023 PERSONAL PROTECTIVE EQUIPMENT – SAFETY FOOTWEAR (First Edition)(40p)

Specifies basic and additional (optional) requirements for safety footwear used for general purpose. It includes, for example, mechanical risks, slip resistance, thermal risks, and ergonomic behaviour. It also specifies requirements for safety footwear equipped with customized safety footwear or individual manufactured customized safety footwear.

MS 71-1:2021 CONCRETE BUILDING BLOCKS – SPECIFICATION

Part 1: Loadbearing concrete masonry units (Second Edition) (9p) M

Covers hollow and solid concrete masonry units made from hydraulic cement, water and mineral aggregates with or without the inclusion of other materials.

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MS 71-2:2021 CONCRETE BUILDING BLOCKS – SPECIFICATION

Part 2: Nonloadbearing concrete masonry units (Second Edition) (4p) M

Covers hollow and solid nonloadbearing concrete masonry units made from hydraulic cement, water and mineral aggregates with or without the inclusion of other materials. These units are intended for use in nonloadbearing partitions, but under certain conditions they may be suitable for use in non-loadbearing exterior walls above grade where effectively protected from the weather

MS 72:1995 FOOTWEAR AND FOOTWEAR MATERIALS – METHODS OF TEST (First Edition) (32p) V

Covers methods of test for leather and leather products.

MS 73:2014 RAW COW'S MILK – SPECIFICATION (Second Edition) (13 p) M

Specifies the quality requirements of raw, normal cow milk.

MS 74:2014 PASTEURIZED COW`S MILK –SPECIFICATION (Second Edition) 2p M

Applies to pasteurized cow's milk.

MS 75-1:2018 MILK AND MILK PRODUCTS – METHODS OF SAMPLING AND ANALYSIS

Part 1: Chemical Analysis (Second Edition) (9 p) V

Prescribes the chemical methods commonly used for the analysis of milk and milk products.

MS 75-2:2018 MILK AND MILK PRODUCTS

Part 2: Microbiological Examination (Second Edition) (9 p) V

Prescribes methods of microbiological examination of milk products

MS 76:2014 AGRICULTURAL HAND HOE-SPECIFICATION (Second Edition) (5p) M

Specifies materials and other requirements for the agricultural hand hoe.

MS 84:1991 WAX FLOOR POLISH – SPECIFICATION (5 p) M

Applies to solvent based and emulsion type, both liquid and paste form wax polishes suitable for use on furniture and floors

MS 85-1:2013 LIMES FOR USE IN BUILDING – SPECIFICATION (Second Edition).

Part 1: Hydrated lime (3 p) M

Covers specification for hydrated limes for use in building.

MS 88:1986 SOLVENT CEMENT FOR ASSEMBLY OF UPVC PIPE FITTINGS – SPECIFICATION (13 p) M

Specifies the requirements for solvent cement, supplied in cans, for joining unplasticized polyvinyl chloride pressure pipes complying with the requirements of MS 4:1993.

MS 89:1991 PESTICIDES – HANDLING, STORAGE AND DISPOSAL – CODE OF PRACTICE (7 p) M

Covers the handling, storage and disposal of pesticides and their containers used in commercial, industrial and public health pest control operations.

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MS 90:2018 HIGH-PROTEIN CEREAL BASED FOODS FOR INFANTS AND YOUNG CHILDREN – SPECIFICATION (Second Edition) (4 p) M

Specifies the requirements and methods of sampling and test for high-protein cereal based foods for infants and young children.

MS 91:1986 LIMES FOR WATER TREATMENT – SPECIFICATION (5 p) M

Lays down requirements for hydrated limes intended for treatment of water.

MS 92:2013 LIMES – METHODS OF TEST (Second Edition (8 p) V

Covers methods of test for the determination of the following properties of lime, calcium oxide content, magnesium oxide content, carbon dioxide content, loss on ignition, insoluble matter including silicon dioxide, residue on slaking of quicklime, fineness of hydrated lime power, soundness of building lime using Le Chatelier methods of measuring its expansion and pat soundness of hydrated lime for use in building.

MS 93:1986 HIGH PROTEIN BABY FOOD – METHODS OF ANALYSIS (15 p) V

Describes the methods of test for the high protein baby foods.

MS 94:1988 INDUSTRIAL AND SAFETY RUBBER BOOTS – SPECIFICATION (22 p) M

Prescribes the requirements and methods of test of industrial and safety rubber boots of knee height for men and women.

MS 96:2014 CHILLIES AND CAPSICUMS, WHOLE OR GROUND (POWDERED) – SPECIFICATION (Second Edition) (6 p) M

Specifies requirements for chillies and capsicums in whole or ground (powdered) form.

MS 97:2013 CURRY POWDER – SPECIFICATION Second edition (11 p) M

Specifies minimum requirements for curry powder which is used as a flavouring ingredient in the preparation of foods.

MS 99-2:1995 PACKAGING SACKS – VOCABULARY

Part 2 - Sacks made from thermoplastic flexible film (10 p) V

Defines terms commonly used in plastic sack manufacture. It refers to single ply and multi-ply sacks made from thermoplastic flexible film; it does not refer to bags for the retail trade.

MS 100-1:1995 SACKS, PACKAGING – DESCRIPTION AND METHOD OF MEASUREMENT

Part 1: Empty paper sacks (10 p) M

This part of MS 100 fixes the description and the dimensional designation of empty paper sacks and specifies the method of measuring those dimensions.

MS 101:1995 FREIGHT CONTAINERS – TERMINOLOGY (15 p) V

Presents definitions of terms relating to freight containers.

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MS 102:1995 FREIGHT CONTAINERS (SERIES I): CLASSIFICATION, DIMENSIONS AND RATING – SPECIFICATION (7 p) M

Establishes a classification of series 1 freight containers based on external dimensions, and specifies the associated ratings, and, where appropriate, the minimum internal and door opening dimensions for certain types of containers.

MS 103:1993 PACKAGING – PICTORIAL MARKING FOR HANDLING OF GOODS (6 p) V

Specifies a set of symbols conventionally used for marking of transport packages to convey handling instructions.

MS 105:1995 TRANSPORT PACKAGES, DIMENSION OF RIGID RECTANGULAR PACKAGES – SPECIFICATION (3 p) M

Sets a series of dimensions for rigid rectangular transport packages, based on the standard plan dimension (module) of 600 mm x 400 mm (23.62 in x 15.5 in)

MS 106:2005 WELDING HELMETS SHIELDS, GOGGLES AND WELDING SPECTACLES – SPECIFICATION (8 p) M

Specifies the requirements for the materials, design and manufacture of welding helmets, hand shields, goggles and welding spectacles that are intended to be used with protective filters, filter covers and backing lenses that comply with the appropriate transmittance requirements. The standard does not cover eye protection devices for use in welding with lasers.

MS 107:1988 ALCOHOLIC BEVERAGES – METHODS OF TEST (16 p) V

Specifies methods of test for alcoholic beverages.

MS 108:2013 PETROLEUM JELLY (PETROLATUM) – SPECIFICATION (Second Edition). (11p) M

Specifies requirements for refine petroleum jelly (petrolatum) in two colour grades (white and yellow), which is intended for use in pharmaceutical and cosmetic applications.

MS 109:1987 CASUAL AND FASHION PLASTIC SHOES – SPECIFICATION (2 p) M

Specifies requirements for fashion shoes made of polyvinyl chloride compound using the 44 injection-moulded principle.

MS 110:2014 SINGLE FURROW ANIMAL DRAWN PLOUGH SHARES – SPECIFICATION (Second Edition) (7 p) M

Specifies the material and dimensions of both upset and straight shares (see **Figure 1** and **Figure)** used in animal drawn ploughs.

MS 111:2018 DAIRY FARMING – CODE OF HYGIENIC CONDITIONS FOR MILKING (Second Edition) (7 p) M

Prescribes provisions to be followed by dairy farmers in the milking, handling and transportation of raw milk to selling/collecting centres.

MS 112:1987 TOOTHPASTE – SPECIFICATION (9 p) M

Covers the requirements for toothpastes (fluoridated and non-fluoridated) intended for use with a brush in cleaning of natural teeth.

MS 113:2011 PETROLEUM INDUSTRY - ABOVE-GROUND NON-PRESSURISED HORIZONTAL CYLINDRICAL STORAGE TANKS FOR PETROLEUM INDUSTRY – SPECIFICATION (11p) M

Specifies the requirements for the manufacture and testing of non-pressurised horizontal cylindrical steel storage tanks for petroleum products.

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MS 114:2011 PETROLEUM INDUSTRY – UNDERGROUND NON-PRESSURIZED HORIZONTAL STORAGE TANKS – MANUFACTURING AND TESTING (4p) M

Specifies the requirements for the manufacture and testing of non- pressurised horizontal cylindrical flat or dished ended underground steel storage tanks and their fittings for the storage of petroleum products

MS 115:2018 FRESH AND FROZEN WHOLE FIN FISH – SPECIFICATION (Second edition) (6 p) M

Specifies requirements and methods of sampling and test for fresh and frozen whole fin fish intended for human consumption**.**

MS 116:2018 SALTED FISH – SPECIFICATION (Second Edition) (12 p) M

Applies to salted fish and dried salted fish which has been fully saturated with salt (heavily salted) or to salted fish which has preserved by partial saturation to a salt content not less than 12% by weight of the salted fish for human consumption.

MS 117:2020 SMOKED FINFISH, SMOKE - FLAVORED FINFISH AND SMOKE – DRIED FINFISH – SPECIFICATION (Third Edition) (9 p) M

Applies to smoked, smoke-flavoured and smoke-dried finfish prepared from fresh, chilled or frozen raw materials.it deals with whole finfish, fillets and sliced and similar products thereof. The standard applies to finfish, either for direct consumption, for further processing, or for additional into specialty or minced products where finfish constitutes only part of the edible contents. Specifies requirements for smoked fish and fishery products.

MS 118:2007 CANNED FISH, CANNED FISH PRODUCTS AND CANNED MARINE MOLLUSCS – SPECIFICATION (SADC HARMONIZED) (20p) M

Covers the requirements for the manufacture, production, processing, or treatment and methods of tests for canned fish, canned fish products, and canned molluscs and their methods of tests.

MS 119:2004 SMALL INCINERATORS – SPECIFICATION (8 p) M

This standard specifies requirements for a range of incinerators using fuel gases or electricity. The range of sizes included is based upon the number of test samples which can be destroyed. In general, these appliances are suitable for the destruction of combustible materials such as sanitary towels, bandages, dressings and paper.

MS 120:1988 GENERAL REQUIREMENTS FOR PESTICIDES – SPECIFICATION (10 p) M

Covers the general requirements for pesticides.

MS 123:1998 INDUSTRIAL AND SAFETY POLY (VINYL CHLORIDE) BOOTS – SPECIFICATION (11 p) M

Specifies requirements for boots moulded from poly (vinyl chloride) compounds, for general industrial use. The boots may be either fabric-lined or unlined and any style from ankle boots to full thigh height inclusive.

MS 125:1987 CHEMICAL LABORATORIES – CODE OF SAFETY (19 p) M

Outlines a code of safety in chemical laboratories.

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MS 131:2013 TEXTILES –STANDARD ATMOSPHERES FOR CONDITIONING AND TESTING (5p) V

Defines the characteristics and use of a standard atmosphere for conditioning, for determining the physical and mechanical properties of textiles and a standard alternative atmosphere that may be used if agreed between parties.

MS 132:1991 FISHING NETS – DESIGNATION OF NETTING YARNS IN THE TEX SYSTEM (4 p) V

Specifies a method for the designation of netting yarns for fishing nets by the use of the nominal linear densities of the single yarn components or, of their resultant linear density, expressed in text.

MS 133-1:2016 TEXTILES – QUANTITATIVE CHEMICAL ANALYSIS

Part 1: General principles of testing (First Edition) (14p) V

Specifies a common method for the quantitative chemical analysis of various binary mixture of fibres. This method and the methods described in the other parts of MS 133 are applicable, in general, to fibres in any textile form. Where certain textile forms are excepted, these are listed in the scope of the appropriate part**.**

MS 133-2:2016 TEXTILES-QUANTITATIVE CHEMICAL ANAIYSIS

Part 2: Ternary fibre mixture (First Edition) (14p) V

Specifies methods of quantitative chemical analysis of various ternary mixtures of fibres.

MS 133-3:2016 TEXTILES-QUANTITATIVE CHEMICAL ANALYSIS

Part 3: Mixtures of acetate and certain other fibres (Method using acetone) (2p) V

Specifies a method, using acetone, to determine the percentage of acetate, after removal of non-fibrous matter, in textiles made of binary mixture

MS 133-4:2016 TEXTILES-QUANTITATIVE CHEMICAL ANALYSIS

Part 4: Mixtures of certain protein and certain other fibres (Method using hypochlorite) V

Specifies a method, using hypochlorite, to determine the percentage of protein fibre, after removal of non- fibrous matters, in textiles made of binary mixture of certain non-protein fibres and one protein fibre.

MS 133-5:2016 TEXTILES-QUANTITATIVE CHEMICAL ANALYSIS

Part 5: Mixtures of viscose, cupro or modal and cotton fibres (method using sodium zincate) (First Edition) (2p) V

Specifies a method, using sodium zincate to determine the percentage of viscose, cupro or modal fibre, after removal of non-fibrous matter, in textiles made of binary mixtures.

MS 133-7:2016 TEXTILES-QUANTITATIVE CHEMICAL ANALYSIS

Part 7: Mixtures of polyamide and certain other fibres (method using formic acid) (First Edition) (2p) V

Specifies a method, using formic acid, to determine the percentage of polyamide fibre, after removal of non-fibrous matter, in textiles made of binary mixtures of polyamide.

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MS 133-9:2016 TEXTILES-QUANTITATIVE CHEMICAL ANALYSIS

Part 9: Mixtures of acetate and tracetate fibres (method using benzyl alcohol) (First Edition) (2 p) V

Specifies a method, using benzyl alcohol, to determine the percentage of acetate, after removal of non-fibrous matter, in textiles made of binary mixtures of acetate and triacetate fibres.

MS 134:1991 TEXTILES – WOVEN FABRIC DESCRIPTIONS (2 p) V

Gives a number of characteristic parameters for woven fabrics and their constituents at various stages of manufacture and processing for the purpose of fabric designation. It is applicable to all woven fabrics except textile floor coverings.

MS 137:1991 FISHING NETS, HANGING OF NETTING – BASIC TERMS AND DEFINITIONS (2 p) V

Gives the principle terms relating to the hanging of netting for fishing nets, together with their definitions.

MS 139:2013: SPICES AND CONDIMENTS DETERMINATION OF VOLATILE OIL CONTENT (HYDRODISTILLOTIA METHOD (4p) V

Specifies a general procedure for visual examination, or with not exceeding 10 times, of whole spices for determination of macro extraneous and foreign.

MS 140:2017 SPICES AND CONDIMENTS – METHODS OF SAMPLING (Second Edition) (4 p) V

Specifies a methods of sampling spices and condiments

MS 141:2013 SPICES AND CONDIMENTS - DETERMINATION OF TOTAL ASH (Second Edition) (4 p) V

Specifies methods for the determination of total ash from spices and condiments.

MS 142:2013 SPICES AND CONDIMENTS-DETERMINATION OF FILTH (7p) V

Specifies a method for the quantitative determination of filth in spices and condiments. As no limit have been prescribed for filth in standard on spices and condiments, this method should be used for collecting more data and for settling disputes.

MS 144:2007 AGRICULTURAL FOOD PRODUCTS – DETERMINATION OF CRUDE FIBRE CONTENT GENERAL METHOD (8 p) V

Specifies a conventional method for the determination of the crude fiber content of agricultural food products.

MS 145:2022 CEREAL AND CEREAL PRODUCTS – SAMPLING (Second Edition) (26 p) V

Specifies requirements for the dynamic or static sampling, by manual or mechanical means, of cereals and cereal products, for assessment of their quality and condition.

MS 146:1988 CEREALS – METHODS OF SAMPLING AS GRAIN (9 p) V

Specifies general conditions relating to the sampling for assessment of quality of cereal grains. It does not apply to seed grains.

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MS 148:1987 CEREALS AND CEREAL PRODUCTS – DETERMINATION OF FAT CONTENT (3 p) V

Specifies a method for the determination of the total fat content of cereals and cereal products intended for human consumption, including baked products and pasta.

MS 149:1988 CEREALS, PULSES AND DERIVED PRODUCTS- DETERMINATION OF ASH CONTENT (5p) V

Specifies two methods for the determination of ash yielded by cereals, pulses and derived products.

MS 150-1:2015 WHEAT AND WHEAT FLOUR-GLUTEN CONTENT

Part 1: determination of wet gluten content by manual method (8p) V

Specifies a manual washing out method for the determination of the wet gluten content of wheat flour (*Triticum aestivum* L and *Triticum durum* Desf) This method is directly applicable to flour.

MS 150-2:2015 WHEAT AND WHEAT FLOUR-GLUTEN CONTENT (10p) V

Part 2: **Determination of wet gluten content by mechanical means**

Specifies a method for the determination of the wet gluten content of wheat flour (Triticum aestivum L. and *Triticum durum* Desf) by mechanical means. This method is directly applicable to flour.

MS 150-3:2015 WHEAT AND WHEAT FLOUR –GLUTEN CONTENT

Part 3: Determination of dry gluten from wet gluten by an oven drying method (5p)M

Specifies a rapid method for the determination of the dry gluten content from wet gluten. This method can also be used to determine the moisture content of the wet gluten.

MS 150-4:2015 WHEAT AND WHEAT FLOUR-GLUTEN CONTENT

Part 4: Determination of dry gluten from wet gluten by a rapid drying method (5p) V

Specifies a rapid method for the determination of the dry gluten content
from wet gluten obtained as specified in either MS 150-1 or MS 150-2. In this method, dry gluten is obtained from wet gluten by dry oven. This method can also be used to determine the moisture content of the wet gluten.

MS 151:1988 CEREALS AND CEREAL PRODUCTS – DETERMINATION OF ALPHA-AMYLASE ACTIVITY - COLORIMETRIC METHOD (8 p) V

Specifies a colorimetric method for the determination of alpha-amylase activity of cereal products, ranging from very low to very high in alpha-amylase activity. The method may also be used for estimating the alpha - amylase activity of additives of fungal and bacterial origin.

MS 152:1988 TURMERIC, WHOLE OR GROUND – SPECIFICATION (3 p) M

Specifies requirements for turmeric (Curcuma longa Linnaeus), whole or ground (powdered).

MS 153:2014 CORIANDER, WHOLE OR GROUND (POWDERED) – SPECIFICATION (Second Edition). (6 p) M

Specifies requirements for coriander (Coriandrum sativum L).in the whole and ground (powdered) forms.

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MS 155:2000 SOLID FUEL COOK STOVE – TYPE II – SPECIFICATION (3 p) V

Specifies the requirements for the solid fuel cook stoves with a pottery liner intended for cooking.

MS 156:1995 IRONS, SOLIDFUEL PRESSING – SPECIFICATION (6 p) M

Lays down the specifications for portable pressing irons for ironing textile materials using charcoal or coal as fuel.

MS 157:1995 COOKSTOVE, LIQUID FUEL NON PRESSURE – SPECIFICATION (8 p) M

Specifies requirements for materials and performance of Liquid fuel non pressure cook stoves which use paraffin as fuel.

MS 158:1995 COOKSTOVE, SOLID FUEL (TYPE 1) – SPECIFICATION (8 p) M

Specifies requirements for solid fuel cook stove, which incorporates one or more ovens and has a cooking surface which includes at least one simmering area of sufficient size to accommodate the number of utensils required and operates with minimum smoke emission.

MS 159:1996 COOLER BLOCKS – SPECIFICATION (4 p) M

Lays down requirements for raw materials, manufacture, dimensions, strength and other physical properties of cooler blocks.

MS 161:1988 CEMENT ROOFING PRODUCTS – SPECIFICATION (7 p) M

Lays down the requirements for raw materials, manufacture, dimensions of cement roofing tiles, sheets and fittings.

MS 164:2013 ASPARAGUS –SPECIFICATION (7p) M

Applies to shoots of commercial varieties of asparagus grown from *Asparagus officinalis* L of the Liliaceae family, to be supplied fresh to the consumer, after preparation and packaging. It covers green and violet asparagus of more than 3mm diameter and white and violet asparagus of more than 8mm diameter, packed in uniform bundles or units packages. Asparagus for industrial processing is excluded.

MS 167:1988 FERTILIZERS AND SOIL CONDITIONERS – VOCABULARY (6 p) V

Defines terms relating to fertilizers and soil conditioners.

MS 169:1993 SAMPLING OF CHEMICAL PRODUCTS FOR INDUSTRIAL USE – SAFETY IN SAMPLING (11 p)M

Gives recommendations relating to safety in the sampling of chemical products for industrial use.

MS 170:2012 UNLEADED PETROL– SPECIFICATION (Third Edition) (10 p) M

Specifies the requirements for unleaded petrol retailed in the country for use as fuel in petrol engine vehicles

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MS 172-1:2011 THE PETROLEUM INDUSTRY

Part: 1: Storage and distribution of petroleum products in the above-ground bulk installations (63P) M

Covers the layout and design of petroleum bulk depots, and the installation of equipment of the types normally used for the handling, storage and distribution of petroleum products and their derivatives, other than equipment that is used for storage and dispensing on consumer premises (including service stations) and for relevant standards exist.

MS 172-2:2011 THE PETROLEUM INDUSTRY

Part 2: Electrical and other installations in the distribution and marketing sector (38p) M

Covers the recommended safe practices in the design, construction, installation and maintenance of electrical, earthing and systems intended to be used in flammable and combustible liquid storage, pumping, distribution and marketing facilities. It is not intended that this standard should apply to refineries or explorations facilities, unless any of these installations are similar to facilities listed above.

MS 172-3:2011 THE PETROLEUM INDUSTRY

Part 3: The installation of underground storage tanks, pumps/ dispensers and pipe works at service stations and consumer installation - Code of practice (26p) M

This code of practice covers provisions for the installation of underground storage tanks of individual capacity not exceeding 85 000 litres, pumps /dispensers and pipe work at service stations and consumer installations.

MS 173 :2005 ACOUSTICS – NOISE POLLUTION – TOLERANCE LIMITS (2 p) M

This Malawi standard prescribes maximum allowable noise limits in industrial, commercial, residential and silence zone areas. It also lays down sound level requirements for indoors of non-industrial buildings.

MS 174:1995 RULERS FOR GENERAL PURPOSE – SPECIFICATION (8 p) M

Prescribes the requirements for rigid and foldable rulers made of wood, plastic or metallic materials, intended for general purposes. It covers end as well as edge measuring scales.

MS 175:1987 BURNT CLAY BRICKS – CODE OF PRACTICE FOR MOULDING AND FIRING (9 p) M

Lays down the procedures to be followed in the selection of raw materials, moulding and firing of hand-made burnt clay bricks.

MS 176:1988 JAMS, JELLIES AND MARMALADES – SPECIFICATION (3 p) M

Specifies the requirements for jams, jellies and marmalades.

MS 177:2016 FRUIT SQUASHES-SPECIFICATION (3p) M

Specifies the requirements for fruit squashes.

MS 178:2018 COUNTRY WINES – SPECIFICATION (Second Edition) (4 p) M

Specifies requirements and methods of sampling and test for country wine prepared from fruits.

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MS 179:2017 RICE – SPECIFICATION (Third Edition) (18 p) M

Specifies the requirements for rice (*Oryza sativa* L.). It is applicable to husked rice and milled rice, parboiled or not, Intended for direct human consumption. It does not apply to other products derived from rice or to glutinous rice.

MS 180:1988 LEAD-ACID STARTER BATTERIES – SPECIFICATION (8 p) M

Specifies requirements for materials, design, construction and testing of lead-acid starter batteries with a rated voltage of 6 or 12 volts supplied in the wet-charged or dry charged condition for starting lighting and ignition services in automobiles.

MS 181:1988 LEAD-ACID STARTER BATTERIES – METHODS OF TEST (6 p) V

Covers methods of test for lead-acid starter batteries.

MS 183:1988 AXES AND HATCHETS – SPECIFICATION (8 p) M

Specifies the requirements on materials, dimensions, mass and performance for axes and hatchets.

MS 185:1995 COOKSTOVE, LIQUID FUEL NON-PRESSURE – METHODS OF TEST (4 p) V

Covers methods of test for liquid fuel non-pressure cook stoves which use paraffin as the fuel.

MS 186:1988 BALLPOINT PENS – SPECIFICATION (11 p) M

Specifies the requirements for single-cartridge ballpoint pens, replacement refills and direct–fill ballpoint pens, which have black, blue, green or red ink.

MS 187:1999 SCHOOL CHALK – SPECIFICATION (3 p) M

Prescribes the requirements, methods of sampling and test for white and coloured chalks made from gypsum, calcium sulphate hemihydrate ($CaSO_4.{}^1/_2H_2O$), intended for writing on chalkboards. It does not apply to calcium carbonate type of chalks.

MS 188:2022 EDIBLE SALT – SPECIFICATION (Third Edition) (12 p) M

Applies to salt used as an ingredient of food, both for direct sale to the consumer and for food manufacture. It applies also to salt used as a carrier of food additives and /or nutrients. It does not apply to salt from origins other than those mentioned in this Malawi standard, notably the salt which is a by-product of chemical industries.

MS 189:2020 CHEESE – SPECIFICATION (Second Edition) (5p) M

Specifies the general requirements for cheeses, intended for direct consumption or further processing in conformity with the description in section 3 of this standard. Subject to the provisions of this standard, standards for individual cheese, may contain provisions which are more specific than those in this standard and in these cases, those specific provisions shall apply.

MS 190:1994 CHEESE – METHODS FOR CHEMICAL ANALYSIS (14 p) V

Provides methods for the analysis of cheese and processed cheese made from milk with the addition of emulsifying salts only.

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MS 191:2014 YOGHURTS – SPECIFICATION (Second Edition) (6 p) M

Prescribes requirements for yoghurt.

MS 192:2009 BUTTER – SPECIFICATION (2p) M

Specifies requirements and methods of sampling and test for butter intended for direct consumption or for further processing.

MS 193:2017 DAIRY CREAMS – SPECIFICATION (Second Edition) (4 p) M

Applies to cream and prepared creams for direct consumption or further processing as defined in section 3 of this standard.

MS 194:2009 DAIRY ICES AND DAIRY ICE CREAM – SPECIFICATION (3p) M

Specifies the requirements, methods of sampling and test for dairy ices and dairy ice cream.

MS 195:1991 FRESH GREEN BEANS – SPECIFICATION (3 p) M

Prescribes requirements for fresh green beans from *Phaseolus vulgaris* L., commonly known as French beans.

MS 196:2018 DRIED MILK – DETERMINATION OF TITRATABLE ACIDITY (REFERENCE METHOD) (Second Edition) (3 p) V

Specifies a reference method for the determination of the titratable acidity of all types of milk.

MS 197:1988 MILK – DETERMINATION OF FREEZING POINT (4 p) V

Describes a method for the determination of freezing point of milk.

MS 198:1993 CREAM – DETERMINATION OF FAT CONTENT (3 p) V

Describes a reference method for the determination of fat content of cream.

MS 199-1:2014 SAUSAGES – SPECIFICATION (Second edition) (8 p) M

Part 1: Pork and beef sausages

Specifies requirements, method of sampling and tests for pork and beef sausages.

MS 199-2:2014 SAUSAGES-SPECIFICATION

Part 2: Chicken sausages (7p) M

Specifies requirements, methods of sampling and test for chicken sausages.

MS 200:1989 MEAT ANIMALS FOR ANTE-MORTERM SLAUGHTER AND POST MORTERM – TRANSPORTATION, HANDLING AND INSPECTION – CODE OF PRACTICE (10 p) M

Prescribes the procedures for transportation and handling of slaughter animals and for the ante-mortem and post-mortem inspection of meat and meat products.

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MS 201:2015 BISCUITS – SPECIFICATION (Second Edition) (8 p) M

Prescribes the essential requirements and methods of sampling and tests for biscuits, baked from dough containing essential ingredients in **4.11** without the addition of optional ingredients in **4.1.2**

MS 202:2013 FORTIFIED WHITE SUGAR – SPECIFICATION (Third Edition) (12p) M

Prescribes the requirements for white sugar derived from sugarcane or beet root intended for human consumption without further processing. The fortification in **Clause 6** apply to sugars sold directly to the final consumer, and are optional to sugars used as ingredients in other foodstuffs.

MS 203:2021 GLUCOSE SYRUP – SPECIFICATION (First edition) (7p) M

This Malawi standard specifies the requirements and the methods of sampling and test for glucose syrup for human consumption.

MS 204:2021 COMMERCIAL DEXTROSE- SPECIFICATION (First Edition) (8p) M

This Malawi standard specifies the requirements and methods of test and sampling for two grades of commercial dextrose, namely anhydrous dextrose and dextrose monohydrate (glucose powder).

MS 205:2022 ICING SUGAR – SPECIFICATION (Second Edition) (4p) M

This Malawi standard prescribes the requirements and the methods of test and sampling for icing sugar intended for use in toppings, icings and other sugar content bakery products.

MS 206:1989 MEAT GRADING – CODE OF PRACTICE (9 p) M

Classifies cattle, sheep, goats and pigs and prescribes requirements for grading meat derived from cattle sheep, goat and pigs.

MS 207:1989 TEA SACKS – SPECIFICATION (10 p) M

Specifies the materials, construction and dimensions of sacks for the palletized and containerized transport of tea.

MS 208:2014 OPAQUE BEER-SPECIFICATION (Second Edition) (3 p) M

This Malawi standard specifies requirements and methods of tests and sampling for opaque beer.

MS 209:2013 FORTIFIED RAW SUGAR – SPECIFICATION (Third Edition) (10 p) M

This standard prescribes the requirements for fortified raw sugar derived from sugarcane or beet root intended for human consumption without further processing. The fortification in Clause 6 applies to sugars sold directly to the final consumer, and are optional to sugars used as ingredients in other foodstuffs.

MS 210:1990 SPIRITS – SPECIFICATION (2 p) M

Specifies requirements for spirits intended for use as beverages.

MS 211:2013 LIQUIED CARBON –DIOXIDE INDUSTRIAL –SPECIFICATION (19 p) M

This Malawi Standard specifies two types of carbon dioxide for industrial use. Type 1 is suitable for industrial non-food application, e.g. purging, inerting, life inflation. Type 2 is higher quality grade which is also suitable for industrial food application, e.g. beverages, gas packing, food freezing and chilling.

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MS 212:2014 POULTRY FEEDS – SPECIFICATION (Second Edition) (14 p) M

Specifies requirements for the following types of poultry feeds: chicken feeds, ducks feeds, turkey feeds.

MS 213:2022 GROUNDNUTS – SPECIFICATION (Third Edition) (6 p) M

This Malawi standard applies to groundnuts (also known as peanuts) either in the pod or in the form of kernels, obtained from varieties of species *Arachis hypogaea* - L for processing or direct human consumption.

MS 214:2013 DRINKING WATER – SPECIFICATION (Second edition) (9 p) M

This standard specifies the physical, biological, organoleptic and chemical requirements for treated drinking tap water. It does not apply to borehole water, bottled water and natural mineral water.

MS 218:1990 POLYURETHANE FOAM CORES – SPECIFICATION (3 p) M

Covers the requirements and methods of sampling for interior foam cores consisting of flexible polyurethane foam for use in mattresses, furniture and other similar uses.

MS 221:1994 BLACK LEAD PENCIL – SPECIFICATION (9 p) M

Specifies the requirements for black lead pencils for general writing purposes in grades HB and 2B.

MS 223:1990 POLYURETHANE FOAMS – METHODS OF TEST (12 p) V

Prescribes methods of test for flexible polyurethane foams.

MS 224:1990 PASTA PRODUCTS – SPECIFICATION (6 p) M

Prescribes the requirements, methods of sampling and test for pasta products.

MS 225:2013 FAT SPREADS AND BLENDED SPREADS-SPECIFICATION (5p) M

This Malawi Standard applies to fat products containing at least 10% and more than 90% fat, intended primarily for use as spreads. However, this standard does not apply to fat spreads derive exclusively from milk and / or milk products to which only other substances necessary for their manufacture have been added. It only includes margarine and products used for similar purposes and exclude products used for similar purposes and exclude products with a fat content of less than two thirds of the dry matter (excluding salt). Butter and dairy spreads are not covered by this standard.

MS 226:2021 GARLIC – SPECIFICATION (Second Edition) (6 p) M

This Malawi standard prescribes requirements and methods of sampling for garlic of varieties (cultivars) grown from *Allium sativum* var .sativum L. to be supplied fresh , semi-dry or dry to the consumer. Green garlic with full leaves and undeveloped cloves and garlic for industrial processing being excluded.

MS 227:2021 HARD BOILED SWEETS – SPECIFICATION (7 p) M

This Malawi standard specifies the requirements and the methods of sampling and testing for hard - boiled sweets.

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MS 228:2022 RAW MACADAMIA KERNELS – SPECIFICATION (Third Edition) (6 p) M

This Malawi standard specifies requirements and methods of sampling and test for raw macadamia kernels of varieties grown from *Macadamia internifolia , Macadamia tetraphylla, macadamia ternifolia* and their hybrids, intended for human consumption.

MS 229-1:2014 CEREAL-BASED BREAKFAST FOOD PRODUCTS-SPECIFICATION (11p)

Part 1: Flaked, puffed or pulverized (ready-to-eat) M

This Malawi Standard prescribes the requirements and methods of test for flaked, puffed or pulverized cereal-based breakfast food products, which are ready- to- eat and are suitable for all in family consumption.

MS 230:2016 TOMATOES-SPECIFICATION (7p) M

Prescribes the requirements for tomatoes *Lycopersicon esculentum* Mill

MS 231:2020 FRESH PINEAPPLES – SPECIFICATION (Second Edition) (5p) M

This Malawi standard applies to commercial varieties of pineapples grown from (Anana*s comosus L).* Merr, of *Bromeliaceae* family, to be supplied fresh to the consumer, after preparation and packaging. Pineapples for industrial processing are excluded.

MS 232:2016 CHEWING GUM AND BUBBLE GUM – SPECIFICATION (Second Edition) (7p) M

This Malawi standard applies to commercial varieties of pineapple grown from *Ananas comosus* (prescribes the requirements and methods of sampling and test for chewing gum and bubble gum.

MS 234:2018 BUN – SPECIFICATION (Second edition) (12) M`

This Malawi standard provides the requirements and methods of sampling and test for bun.

MS 236-1:2011 CODE OF PRACTICE FOR HANDLING, STORAGE, DISTRIBUTION AND MAINTENANCE OF LIQUEFIED PETROLEUM GAS (LPG) IN DOMESTIC, COMMERCIAL AND INDUSTRIAL INSTALLATIONS (61p) M

Part 1: Installations involving gas storage containers of individual water capacity not exceeding 500litres and a combined water capacity not exceeding 3000 litres per installation

Specifies requirements for the materials, the methods of construction and the installation of equipment used in the liquefied petroleum gas applications for domestic and commercial installations that involve gas storage containers of individual water capacity not exceeding 500 litres and of a combined water capacity not exceeding 3000 litres.

MS 236-3:2011 CODE OF PRACTICE FOR HANDLING, STORAGE, DISTRIBUTION AND MAINTENANCE OF LIQUEFIED PETROLEUM GAS (LPG) IN DOMESTIC, COMMERCIAL AND INDUSTRIAL INSTALLATIONS (38p) M

Part 3: Installations involving storage vessels of individual water capacity exceeding 500 litres

Specifies requirements for the layout, design and installation of butane, propane and liquefied petroleum gas equipment, and of storage vessels of individual water capacity exceeding 500 litres and associated vaporizers, pipework and fittings up to the outlet of the first pressure reduction stage in the line.

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MS 236-4:2011 CODE OF PRACTICE FOR HANDLING, STORAGE, DISTRIBUTION AND MAINTENANCE OF LIQUEFIED PETROLEUM GAS (LPG) IN DOMESTIC, COMMERCIAL AND INDUSTRIAL INSTALLATIONS

Part 4: Transportation in bulk by road (14 p) M

Contains recommendations for the design, construction, inspection, fittings and filling ratio of tanks used in the transportation of LPG in bulk by road, the design of vehicles and equipment, and operating practice.

MS 236-6:2011 CODE OF PRACTICE FOR HANDLING, STORAGE, DISTRIBUTION AND MAINTENANCE OF LIQUEFIED PETROLEUM GAS (LPG) IN DOMESTIC, COMMERCIAL AND INDUSTRIAL INSTALLATIONS

Part 6: The application of liquefied petroleum and compressed natural gas as engine fuels for internal combustion engines (37p) M

Covers the safe use of liquefied petroleum gas and compressed natural gas as fuels for internal combustion engines and for the safe operation of equipment manufactured for conversions.

MS 236-7:2011 CODE OF PRACTICE FOR HANDLING, STORAGE, DISTRIBUTION AND MAINTENANCE OF LIQUEFIED PETROLEUM GAS (LPG) IN DOMESTIC, COMMERCIAL AND INDUSTRIAL INSTALLATIONS

Part 7: Storage and filling premises for refillable containers of gas capacity not exceeding 9 kg and the storage of individual gas containers exceeding 48kg (24p) M

Specifies the minimum requirements for the location and installation of, and operations at, filling premises for the filling of liquefied petroleum gas (LPG) container of gas capacity not exceeding 9 kg, including the storage of individual gas containers not exceeding 48 kg. It identifies safe methods of filing and storing refillable containers and makes recommendations towards safe working procedures that cover all aspects of the storage containers.

MS 236-8:2011 CODE OF PRACTICE FOR THE HANDLING, STORAGE, DISTRIBUTION AND MAINTENANCE OF LIQUEFIED PETROLEUM GAS (LPG) IN DOMESTIC, COMMERCIAL AND INDUSTRIAL INSTALLATION

Part 8: The fueling of fork lift trucks and other LP gas operated vehicles (8p) M

Covers recommendations for the equipment used in filling LP gas containers on fork lift trucks and other LP gas operated vehicles from fixed storage, and for the siting and maintenance of the equipment. It also covers safety pre-cautions and fuelling procedure and is intended to supplement MS 236: Part 6.

MS 236-10:2011 CODE OF PRACTICE FOR THE HANDLING, STORAGE, DISTRIBUTION AND MAINTENANCE OF LIQUEFIED PETROLEUM GAS (LPG) IN DOMESTIC, COMMERCIAL, AND INDUSTRIAL INSTALLATION

Part 10: Mobile filling stations for refillable LPG containers of capacity not exceeding 9 kg (4p) M

Gives recommendations in respect of the location and operation of mobile filling stations suitable for filling of refillable liquefied petroleum gas containers.

MS 237:2008 FOOD ADDITIVES - GENERAL STANDARD (250p) M

Lists food additives recognized as suitable for use in foods, and their maximum acceptable levels. The use of additives in conformance with this standard is considered to be technologically justified.

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MS 240:2017 PIG FEED – SPECIFICATION (Second Edition) (7 p) M

This Malawi standard specifies the requirements and methods of sampling and test for pig feed.

MS 242:2020 COW PEAS – SPECIFICATION AND GRADING (Second Edition) (5 p) M

This Malawi standard specifies the requirements and methods of sampling and test for shelled dry cow peas of the varieties (cultivars) grown from, *Vigna ungiculatum* **Linn.Sync***.Vigna sinensis (L)* Hassk, intended for consumption. It is locally known as “khobwe”

MS 243:1991 DRY GARDEN PEAS – SPECIFICATION (4 p) M

Specifies requirements for dry garden peas, *Pisum sativum* (locally known as nsawawa) and are intended for human consumption.

MS 244:2022 SOYBEANS – SPECIFICATION (Third Edition) (5 p) M

This Malawi standard **s**pecifies requirements and methods of sampling and test for dry whole soya beans (*Glycine max L. (Merill*), intended for human consumption.

MS 245:2016 DRY BEANS-SPECIFICATION (5p) M

This Malawi standard specifies requirements and methods of sampling and test for dry common beans (*Phaseolus vulgaris* Linn) intended for human consumption

MS 246:1990 GINGER-WHOLE, IN PIECES OR GROUND – SPECIFICATION (6 p) M

Specifies requirements and methods of test for ginger *Zingiber officinale*, (Roscoe), whole, in pieces or ground.

MS 249:2020 FERTILIZERS – MARKING – PRESENTATION AND DECLARATIONS (Second Edition)(11p) M

This Malawi Standard specifies the procedure for marking containers or labels for fertilizers.

MS 250:1991 LAUNDRY SOAP – SPECIFICATION (8 p) M

Prescribes requirements and methods of sampling and test for laundry soaps.

MS 251:2002 SAFETY WOOD MATCHES – SPECIFICATION (4 p) M

Specifies functional requirements for safety wood matches in boxes. It defines the performance characteristics of the splints, matches head composition, match box and friction surface.

MS 252:2002 SAFETY WOOD MATCHES – METHODS OF TEST (6 p) V

Describes the methods of test for safety wood matches in boxes. It does not cover book matches.

MS 253-1:2016 SYNTHETIC DETERGENT POWDERS – SPECIFICATION

Part 1: Household hand use (Second Edition) (10p) M

The standard specifies requirements for synthetic detergent powders for household use based predominantly on the use of alkyl aryl sulphonates. It does not cover synthetic powders for use with washing machines.

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MS 253-2:2016 SYNTHETIC DETERGENT POWDERS – SPECIFICATION

Part 2: Machine wash (First Edition) (14p) M

This Malawi standard specifies the requirements and methods of sampling and test for synthetic detergents for machine wash. It does not cover hand wash powders and industrial detergent powders.

MS 254:2003 SYNTHETIC DETERGENT POWDERS FOR HOUSEHOLD USE – METHODS OF TEST (5 p) V

This Malawi Standard specifies the requirements for methods of tests for synthetic detergent powders for household use.

MS 255:2020 SOLID COMPOUND FERTILIZER – SPECIFICATION (Second Edition) (7 p) M

This Malawi standard specifies requirements and methods of sampling and test for solid compound fertilizer.

MS 258:2020 SULPHATE AMMONIUM FERTILIZER – SPECIFICATION (Second Edition) (6 p) M

This Malawi Standard specifies requirements and methods of test for sulphate ammonium fertilizer, also known as ammonia sulphate.

MS 263:1991 TARPAULINS – SPECIFICATION (5 p) M

Specifies requirements for the materials, manufacture and proofing of tarpaulins that have been treated and/or coated to induce water resistance and for resistance.

MS 264:1991 LOOMSTATE COTTON DUCK – SPECIFICATION (13 p) M

Covers twelve qualities of plain woven cotton fabric in the loomstate suitable for tents, tarpaulins and equipage. The fabric may be suitably processed, as required.

MS 265:2020 THE HANDLING AND STORAGE OF BAGGED FERTILIZERS – CODE OF PRACTICE (Second Edition) (7p) M

This Malawi standard lays down recommended practices to be followed for storage of fertilizers packed in jute bags, with or without a plastics liner/lamination, high density polyethylene woven bags with or without a plastics liner/lamination and polypropylene woven bags with or without a plastics liner/ lamination.

MS 267:2004 CALCIUM CARBONATE (PRECIPITATED) FOR COSMETIC INDUSTRY – SPECIFICATION (9 p) M

This standard prescribes the requirements, methods of sampling and tests for precipitated calcium carbonate for the cosmetic industry.

MS 271:2020 SUPERPHOSHATE FERTILIZER – SPECIFICATION (Second Edition) (5 p) M

This Malawi standard specifies requirements and methods of test for single superphoshate, double superphoshate and triple superphoshate fertilizers.

MS 272:2020 CALCIUM AMMONIUM NITRATE (CAN) FERTILIZER – SPECIFICATION (Second Edition) (7 p) M

This standard specifies requirements and methods of sampling and test for calcium ammonium nitrate (CAN) fertilizer.

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MS 274:2019 PAINTS AND VARNISHES – STANDARD PANELS FOR TESTING (Second Edition) (10p) V

This Malawi standard specifies several types of standard panel and describes procedures for their preparation prior to painting. These standard panels are for use in general methods of test for paints, varnishes and related products.

MS 275:2013 PAINTS AND VANISHES – COMPARISON OF CONTRAST RATION (CHIDING POWER) OF PAINTS OF THE SAME TYPE AND COLOUR (3p) V

This Malawi standard is one of a series dealing with the sampling and testing of paints, varnishes and related products .it should be read in conjunction with ISO 1512, paints and varnishes-sampling, and MS 276, paints and varnishes-examination and preparation of samples for testing.

MS 276:2019 PAINTS AND VANISHES – DETERMINATION OF SPECIAL GLOSS OF NON-METALLIC FILM AT 20, 60 AND 85 (Second Edition) (20p) V

This Malawi standard specifies a test method for determining the specular gloss of paint films using a reflectometer geometry of 20,60 or 85.the method is not suitable for the measurement of the gloss of metallic paints.

MS 277:2013 TEXTILES – TESTS FOR COLOUR FASTNESS

Part AO2: grey scale for assessing change colour (3p) V

This Malawi standard describes the grey scale for determining changes in colour of textiles in colour fastness tests, and its use. A precise colorimetric specification of the scale is give as a permanent record against which newly prepared working standards that may have changed can be compared.

MS 278:2013 ROAD - MARKING PAINT – SPECIFICATION (Second Edition) (16 p) M

This Malawi Standard specifies requirements and methods of sampling and test for road marking paint. It covers conventional solvent-borne and water-borne paints suitable for marking traffic-bearing bituminous or concrete road surfaces, and makes provision for white, yellow and other colours.

MS 279:2013 EMULSION ROOF – PAINT-SPECIFICATION (Second Edition) (11p) M

Covers one type of emulsion paint for use on clean unpainted new galvanized iron.

MS 280:2013 EMULSION PAINTS – SPECIFICATION (Second Edition) (12 p) M

This Malawi standard specifies the requirements and methods of sampling and test for four grades of emulsion paint that are based on synthetic polymers dispersed in water phase and that are supplied in a matt, semi-gloss finish, for application over interior plaster or other masonry substrates, as one or more coats of the same grade. three grades are suitable for both interior and exterior use, and one grade is suitable for interior use only.

MS 282:2013 DECORATIVE HIGH GLOSS ENAMEL PAINTS-SPECIFICATION (Second Edition) (13 p) M

This Malawi standard specifies requirements and methods of sampling and test for two grades of air-drying gloss enamel paints for use on suitably primed and uncoated steel, wood, masonry, hard board, compressed fibre board and similar materials used in construction and finishing of buildings.

MS 283:1991 PAINTS – METHODS OF TEST (26 p) V

This standard prescribes the methods of test for paints.

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MS 287:2013 PRIMING PAINTS FOR STEEL-SPECIFICATION (Second Edition) (9p) M

This Malawi standard specifies requirements and sampling and test for solvent-borne primers in which the reactive pigment is zinc phosphate type or ferric oxide type, free from heavy metals, for use on suitably prepared steel surfaces.

MS 288:2013 PRIMERS FOR WOOD-SPECIFICATION (Second Edition) (9p) M

This Malawi standard specifies requirements and methods of sampling and test for primers for wood intended for interior and exterior use.

MS 289-1:2017 ANIMAL FEEDS AND FEEDING STUFF – METHODS OF SAMPLING AND TEST PART 1: SAMPLING (Second Edition) (17p) V

This Malawi standard specifies methods of sampling animal feeding stuffs, including fish feed, for quality control for commercial, technical and legal purposes.

MS 289-2:2017 ANIMAL FEEDS AND FEEDING STUFFS – METHODS OF SAMPLING AND TEST PART 2: GENERAL METHODS (Second Edition) (9p) V

Part 2: General Methods

This Malawi standard specifies the general methods of testing animal feeds and feeding stuffs.

MS 289-3:2017 ANIMAL FEEDS AND FEEDING STUFFS – METHODS OF SAMPLING AND TEST PART 3: MINERAL AND TRACE ELEMENTS (First Edition) (12p) V

This Malawi standard prescribes methods for determination of minerals and trace elements in animal feeds, feeding stuffs and feed supplements.

MS 289-4:2017 ANIMAL FEEDS AND FEEDING STUFFS – METHODS OF TEST – MICROBIOLOGICAL METHOD (6p) V

Part 4: Microbiological Methods

Prescribes the microbiological methods for testing animal feeds and feeding staffs.

MS 290:1991 HIDES AND SKINS, RAW – GUIDELINES FOR GRADING (7 p) V

Prescribes guidelines for grading of raw hides and skins of cattle, calves, sheep and goats in the fresh or preserved state intended for tanning.

MS 292:1991 MILK AND MILK PRODUCTS – METHODS OF TEST – MICROBIOLOGICAL EXAMINATION (9 p) V

Part 1: Total plate count
Describes a method of testing the total plate count of micro-organisms in unprocessed milk, pasteurized milk, uncultured liquid milk products, ghee and cream.
Part 2: Coli form count
Describes a method of determining the number of coliform bacteria in milk and milk products.
Part 3: Yeasts and moulds
Describes a method of testing the total plate count of micro-organism in unprocessed milk, pasteurized milk, uncultured liquid milk products, cheese, dried milk products, ghee and cream.
Part 4: Swab test
Deals with the test intended for checking sanitization of the surface of containers and equipment with which milk and milk products can come in direct contact.

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MS 293:1991 RAW HIDES AND SKINS – TERMINOLOGY OF DEFECTS (6p) V

This standard shall apply to principal terms used to describe the defects most frequently seen on raw hides and skins in the fresh or preserved state and intended for tanning.

MS 300:2004 GENERAL GUIDELINES FOR ESTABLISHING A HAZARD ANALYSIS CRITICAL CONTROL POINT (HACCP) SYSTEM IN FOOD ESTABLISHMENT – CODE OF PRACTICE (10 p) V

The standard lays down the basic requirements for the implementation of the hazard analysis critical control point (HACCP) system in a food establishment to ensure food safety. It also provides general guidance for its practical operation.

MS 302:2008 CONTAMINANTS AND TOXINS IN FOOD (46p) M

This standard contains the main principles and procedures which are used and recommended by the codex alimentarius commission (cac) in dealing with contaminants and toxins in foods and feeds, and lists the maximum levels of contaminants and natural toxicants in foods and natural toxicants in foods and feed which are recommended by the cac to be applied to commodities moving in international trade.

MS 303:1991 MINT, DRIED – SPECIFICATION (5 p) M

Specifies the requirements for leaves of dried mint (spear mint) in whole, broken or rubbed form. 'Dried mint' includes dehydrated mint ie. artificially dried mint.

MS 304:2014 CINNAMON (SRI LANKAN TYPE, SEYCHELLES TYPE AND MADAGASCAN TYPE), WHOLE OR GROUND (POWDERED) – SPECIFICATION (Second Edition) (7 p) M

Specifies requirements for whole or ground (powdered) cinnamon of the Sri Lankan type, Madagascan type Seychelles type, which is the tree or shrub Cinnamon Beylanicum Blume.

MS 305:1991 THYME, WHOLE – SPECIFICATION (4 p) M

Specifies requirements for whole thyme (Thymes vulgaris) in processed or semi processed form for purposes of transactions.

MS 306:2017 CELERY SEED – SPECIFICATION (Second Edition) (4p) M

The Malawi standard specifies requirements and test methods of sampling and test for whole celery seed (Apium graveolens Linnaeus) for use as a spice.

MS 307:2002 NATURAL LATEX RUBBER CONDOMS – REQUIREMENTS AND TEST METHODS (43 p) M

This Malawi Standard specifies requirements for male condoms from compounded natural rubber latex, supplied to consumers and designed for contraceptive purposes and to assist in the prevention of sexually transmitted diseases.
This Malawi Standard does not contain requirements for tensile properties of condoms. If determination of tensile properties is desired, the test method in Annex J can be used.

MS 308:2002 REUSABLE RUBBER CONTRACEPTIVE DIAPHRAGMS – SPECIFICATION (13 p) M

This Malawi Standard specifies requirements and methods of test for reusable rubber diaphragms (hereafter called diaphragms) supplied in consumer packages for contraceptive use and for protection against sexually transmitted diseases.

This Malawi Standard does not cover other vaginal contraceptives barriers, such as those known cervical caps, vaginal sponges and vaginal sheaths.

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MS 309:1991 CONCRETE FLOOR AND WALL TILES – SPECIFICATION (5 p) M

Specifies the requirements for dimensions, strength and workmanship of floor and wall tiles made with cement and aggregates. The tiles may be plain or coloured.

MS 310:1991 PROTECTION OF BUILDING AGAINST LIGHTNING – CODE OF PRACTICE (123 p) M

Covers the protection of dwelling homes, farm buildings and small huts by means of conductors and/or masts; the use of metal roofs and gutters as part of the protection; the protection of thatched roofs; recommended materials and dimension of conductors and masts, the various methods of earthing, and the protection of electrical installations and radio and television aerials. Contains 14 drawings of typical examples of protection.

MS 312-1:1991 MEN'S SHOES WITH STUCK-ON OUTER SOLES – SPECIFICATION

Part 1: Flat lasted construction (40 p) M

Covers requirements for materials and construction for men's shoes with stuck-on outer soles, made in accordance with the flat lasted principle.

MS 312-2:1991 MEN'S SHOES WITH STUCK-ON OUTER SOLES – SPECIFICATION

Part 2: California type construction (17 p) M

Covers requirements for materials and construction for men's shoes with stuck-on outer soles made in accordance with California type principle.

MS 312-3:1991 MEN'S SHOES WITH STUCK-ON OUTER SOLES – SPECIFICATION

Part 3: Moccasin type construction (18 p) M

Covers requirements for materials and construction for men's shoes with stuck-on outer soles, made in accordance with moccasin type principle, with or without reinforcing stitching.

MS 313:1991 INFANTS AND CHILDREN'S SHOES (STUCK-ON AND STITCH-DOWN CONSTRUCTIONS) – SPECIFICATION (38 p) M

Covers children's shoes made according to the stuck-on and stitch-down constructions and supplied in one or both of size ranges 105-145 and 150 - 205.

MS 314:1991 FOOTWEAR SIDE UPPER LEATHER – SPECIFICATION (5 p) M

Covers chrome-tanned bovine leather with a corrected grain and smooth finish and intended for use as an upper material for footwear.

MS 315:2003 FABRIC LININGS FOR FOOTWEAR – SPECIFICATION (7 p) M

This specification covers the requirements for 15 types of woven cotton fabric suitable for use as linings for footwear. Three of the types are fabrics combined by adhesive bonding.

MS 316:1991 THREADS FOR FOOTWEAR – SPECIFICATION (8 p) M

Covers cotton linen polyamide and polyamide threads and blended threads that consist of polyamide (or polyester) and cotton suitable for use in the manufacture of footwear.

MS 317:1991 CAST IRON MANHOLE COVERS, INSPECTION COVERS AND FRAMES – SPECIFICATION (11 p) M

Specifies requirement for cast iron manhole covers, inspection covers and frames.

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MS 318:1991 CAST IRON BRACKETS AND SUPPORTS FOR WASH BASINS AND SINKS – SPECIFICATION (10 p) M

Covers requirements regarding materials construction, workmanship, dimensions, weights and finish of cast iron brackets and supports for wash basins and sinks.

MS 319:2006 STEEL DOOR FRAMES – SPECIFICATION (16p) M

This Malawi Standard covers sizes and general requirements for door frames (with or without fan light frames) fabricated from mild steel sheet, for walk-through doors.

MS 320:2006 WINDOWS AND DOORS MADE FROM ROLLED MILD STEEL SECTIONS – SPECIFICATION (20p) M

This Malawi Standard covers windows, doors, sidelights and fanlights fabricated from rolled mild steel sections, complete with fittings and ancillary components.

MS 321:1991 ZINC-COATED FENCING WIRE (PLAIN AND BARBED) – SPECIFICATION (10 p) M

Specifies the requirements for the dimensions and quality of plain fencing wire and barbed (single strand and double strand) fencing wire made from 3 grades of zinc coated steel wire.

MS 322:2007 MILD STEEL NAILS – SPECIFICATION (FIRST EDITION) (21) M

This specification covers the requirements for wire and mild steel nails and tacks for general use and eight nails for pneumatic gun nailers.

MS 324:2012 FERTILIZERS – DETERMINATION OF BULK DENSITY (LOOSE) (3p) V

This standard specifies a method for the determination of the bulk density (loose) of solid fertilizers, except powder fertilizers.

MS 325:2012 FERTILIZERS - DETERMINATION OF BULK DENSITY (BULK) (6p) V

This standard specifies two methods for the determination of the bulk density (tapped) of solid fertilizers: The machine –tapping method and The hand-tapping method.

MS 326:2004 INCINERATORS−STANDARD PERFORMANCE REQUIREMENTS FOR INCINERATION PLANT FOR THE DESTRUCTION OF HOSPITAL WASTE – SPECIFICATION (2p) M

This specification specifies the standard performance requirements for incineration plant, assisted by auxiliary fuel if required, suitable for the destruction of hospital waste.
It does not cover devices which utilize intensities of combustion exceeding an average heat release rate of 350 kW/m^3.

MS 328:2013 LOCKS, LATCHES, AND ASSOCIATED FURNITURE (DOMESTIC TYPE)-SPECIFICATION (16p) M

This specification covers the requirements for the materials, essential dimension, finish, and performance for locks and latches, and the associated lock and furniture.

MS 329 :1991 TEXTILES – TERNARY FIBRE MIXTURES – QUANTITATIVE ANALYSIS (18 p) M

Specifies methods of quantitative analysis of various ternary mixtures of fibres.

MS 330:1991 SIZE DESIGNATION OF CLOTHES (MEN'S AND BOYS' OUTERWEAR GARMENTS) (5 p) M

Establishes a system of designating sizes of men's and boys' outerwear garments (including knitwear and swimwear) that are classified as, covering the upper or whole body or lower body only

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MS 331:1991 SIZE DESIGNATION OF CLOTHES (WOMEN'S AND GIRLS' OUTERWEAR GARMENTS (7 p) M

Establishes a system of designating the sizes of women's and girls' outerwear garments (including knitwear and swimwear) that are classified as covering the upper or the whole body, or covering the lower body only.

MS 332:1991 SIZE DESIGNATION OF CLOTHES (INFANTS' GARMENTS) (4 p) M

Establishes a system of designating the sizes of infants' garments. Both the control dimension on which the size designation system is based, and the method of indicating the size designation on garment labels, are laid down.

MS 333:1991 SIZE DESIGNATION OF CLOTHES (DEFINITIONS AND BODY MEASUREMENT PROCEDURE) (7 p) M

Defines dimensions and specifies a standard procedure for measuring the body.

MS 334:1991 SKIN CARE PRODUCTS – SPECIFICATION (5 p) M

Prescribed the basic requirements for general purpose creams, lotions and gels for skin care as products intended either for lightening or conditioning the skin.

MS 346:2005 INCINERATORS – METHODS OF SPECIFYING PURCHASERS REQUIREMENTS FOR INCINERATION PLANT FOR THE DESTRUCTION OF HOSPITAL WASTE (6 p) M

This standard details a method for specifying purchaser's requirements for incinerators for the destruction of hospital waste manufactured to specific' requirements. It does not cover other items of plant such as charging machines, chimneys, flues, etc.

MS 348:1998 AFRIDEV DEEP-WELL HANDPUMP – SPECIFICATION (second Edition) (56 p) M

Covers requirements for afridev deep well handpump suitable for lifting water from depth of 10m to 45m. It applies to boreholes with casing sizes of nominal 100 mm, 115 mm, 127 mm, 150 mm or 200 mm internal diameter.

MS 349:2021 EDIBLE CASSAVA FLOUR - SPECIFICATION. (Third Edition) (6 p) M

This Malawi standard specifies the requirements and test methods of sampling and test for cassava flour which is obtained from the processing of cassava roots (*Manihot esculenta* Crantz) intended for human consumption.

MS 350-1: 2012 SAMPLING PROCEDURES FOR INSPECTION BY ATTRIBUTES PART1: SAMPLING PLANS INDEXES BY ACCEPTABLE QUALITY LEVEL (AQL) FOR LOT BY LOT INSPECTION (First Edition)(85p) V

This part of MS 350 specifies an acceptance sampling system for inspection by attributes. It is indexed in terms of the acceptance quality limit (AQL).

MS 350-3:2012 SAMPLING PROCEDURES FOR INSPECTION BY ATTRIBUTES

Part 3: skip-lot sampling procedures (first edition) (26p) v

Specifies generic skip-lot sampling procedures for acceptance inspection by attributes. The purpose of these procedures is to provide a way of reducing the inspection effort on products of high quality submitted by a supplier who has a satisfactory quality assurance system and effective quality controls. The reduction in inspection effort is achieved by determining at random, with a specified probability, whether a lot presented for inspection will be accepted without inspection. This procedure extends the principle of the random selection of sample items already applied in MS 350-1 to the random selection of lots.

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MS 350-4:2012 SAMPLING PROCEDURES FOR INSPECTION BY ATTRIBUTES

Part 4: Procedures for assessment of stated quality levels (first edition) (12p) v

Establishes sampling plans and procedures that can be used to assess whether the quality level of an entity (lot, process, etc.) conforms to a declared value. The sampling plans have been devised so as to obtain a risk of less than of contradicting a correct declared quality level. The risk is of failing to contradict an incorrect declared quality level which is related to the limiting quality ratio (see clause 4) sampling plans are provided corresponding to three levels of discriminatory ability.

MS 351:2020 UREA FERTILIZER – SPECIFICATION (Second Edition) (4 p) M

Specifies requirements and methods of sampling and test for urea.

MS 352:2020 NITRATE OF SODA FERTILIZERS, – SPECIFICATION (Second Edition) (5p) M

Specifies requirements and methods of sampling and test for nitrate of soda fertilizer, also known as Sodium nitrate.

MS 353:2020 NITRATE AMMONIUM FERTILIZER – SPECIFICATION (Second Edition) (5 p) M

Specifies requirements and methods of sampling and test for nitrate fertilizer also known as ammonia nitrate.

MS 354:2000 MURIATE OF POTASH FERTILIZER – SPECIFICATION (Second Edition) (4 p) M

Specifies requirements, and methods of sampling and test for muriate of potash fertilizer, also known potassium chloride.

MS 355:2020 SULPHATE OF POTASH FERTILISER – SPECIFICATION (Second Edition) (4 p) M

Specifies requirements and methods of sampling and test for sulphate of potash fertilizer, also known potassium sulphate.

MS 356:2004 DESIGN, SPECIFICATION, INSTALLATION AND COMMISSIONING OF INCINERATION PLANT FOR THE DESTRUCTION OF HOSPITAL WASTE – CODE OF PRACTICE (15 p) M

Gives guidance on the design, specification, installation and commissioning of incineration plant for the destruction of hospital waste. It also gives information on training of staff and maintenance of plant, on collection and transportation of hospital waste.

MS 357: 1998 THREADS FOR FOOTWEAR – METHODS OF TEST (8 p) V

Covers methods of test for threads for footwear.

MS 358:1991 HIDES AND SKINS, RAW – RULES FOR PRESERVATION (6 p) V

Prescribes the rules for preservation of raw hides and skins and applies to methods of preservation by air-drying stack salting, dry salting and pickling of raw hides and skins intended for tanning.

MS 359:2004 INCINERATORS – PERFORMANCE OF INCINERATION PLANT FOR THE DESTRUCTION OF HOSPITAL WASTE – METHODS OF TEST AND CALCULATION (18 p) V

Lays down the tolerance limits for industrial effluents discharged into inland surface waters, sampling guidelines and test methods.

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MS 360:2002 PAPER DETERMINATION OF BURSTING STRENGTH (9 p) V

This standard specifies a method for measuring bursting strength of paper submitted to increasing hydraulic pressure. It is applicable to paper having bursting strengths within the range 70 kPa to 1 400 kPa. It is not intended to be used for the components (such as fluting medium or liner-board) of a combined board, for which the method given in ISO 2759 is suitable.

MS 363-1:2002 PACKAGING SACKS – DROP TEST

Part 1: Paper sack (9 p) V

Specifies a method of vertical impact testing on a filled paper sack by dropping. It may be performed either as a single test to investigate the effects of vertical impact or as part of a sequence of tests designed to measure the ability of a sack to withstand a distribution system that includes a vertical impact hazard.

MS 363-2:2002 PACKAGING SACKS – DROP TEST

Part 2: Sacks made from thermoplastic flexible film (9 p) V

This part of standard MS 363 specifies a method of vertical impact testing on a filled sack made from thermoplastic flexible film by dropping. It may be performed either as a single test to investigate the effects of vertical impact or as part of a sequence of tests designed to measure the ability of a sack to withstand a distribution system that includes a vertical impact hazard.

MS 364-1:2002 PAPER AND BOARD – DETERMINATION OF TENSILE PROPERTIES

Part 1: Constant rate of loading method (6p) V

This part of MS 364 specifies a method of measuring the tensile strength of paper and board using an instrument operating at a constant rate of application of tensile force (constant rate of loading) which causes failure of the test piece in a mean time of 20 ± 5 s. It also specifies methods for calculating the breaking length and tensile index.

MS 364-2:2002 PAPER AND BOARD – DETERMINATION OF TENSILE PROPERTIES

Part 2: Constant rate of elongation method (7p) V

This part of SM 364 specifies a method of measuring the tensile strength, stretch at break, and the tensile energy absorption of paper and board using a test instrument operating with a constant rate of elongation. It also specifies methods for calculating the tensile energy absorption index and the breaking length.

MS 365:2021 FRESH ONIONS – SPECIFICATION (First Edition) (5p) M

Prescribes requirements and methods of sampling for onions of varieties (cultivars) grown from Allium cepa L. Cepa Group to be supplied to the consumer in the natural state , green onions with full leaves and onions for industrial processing being excluded.

MS 366:2022 HONEY – SPECIFICATION (Second Edition) M

Applies to all honeys produced by honey bees and covers all styles of honey presentations, which are processed and ultimately intended for direct consumption. It also applies to honey used as an ingredient in other foods, and honey, which is packed for sale in bulk containers, which may be repacked into retail packs.

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MS 367:2010 WAX POLISH – METHODS OF TEST (10 p) V

Covers methods of test for wax.

MS 368:1991 METHYLATED SPIRITS – SPECIFICATION (5 p) M

Specifies requirements for industrial methylated spirits.

MS 370:1991 METHYLATED SPIRITS – METHODS OF TEST (9 p) V

Prescribes methods to be used for ascertaining conformity with specification of methylated spirits.

MS 372:1991 HAND DISH WASHING LIQUIDS – SPECIFICATION (9 p) M

Specifies liquid detergents for use in soft or hard water for hand dishwashing and for cleaning of hard surfaces.

MS 373:1991 SCOURING POWDER – SPECIFICATION (3 p) M

Covers scouring powders for the removal of tenacious soil from hard surfaces.

MS 374-1:2023 PLASTIC PIPING SYSTEMS. POLYETHYLENE (PE) PIPES AND FITTINGS FOR WATER SUPPLY.

Part 1: General (Second Edition) (14p) M

Specifies the general aspects of polyethylene(PE) compounds for the manufacture of pressure pipes and fittings (main and service pipes) for buried or above ground applications , intended for the conveyance of water for human consumption, raw water prior to treatment, drainage and sewerage under pressure, vacuum sewer systems ,water for other purposes.

MS 374-2:2023 PLASTIC PIPING SYSTEMS. POLYETHYLENE (PE) PIPES AND FITTINGS FOR WATER SUPPLY.

Part 2: Pipes (Second Edition) (18p) M

Specifies the pipes made from polylethylene (PE) for buried or above ground application intended for the conveyance of, water for human consumption, raw water prior to treatment, drainage and sewerage under pressure, vacuum sewer systems, water for other purposes.

MS 374-3:2004 BLACK POLYETHYLENE PIPES FOR THE CONVEYANCE OF LIQUIDS – SPECIFICATION

Part 3: High Density Polyethylene PE 80 Pressure Pipes (8p) M

This part of MS 374 covers plain, unthreaded, high-density black polyethylene (PE-HD) pipes (including pipes with integral fittings) that have a design stress rating of 6,3 MPa. They are intended for applications above and below ground, for the drainage and conveyance of water under pressure where temperatures of up to 40 ºC are encountered.

MS 374 -5:2023 PLASTIC PIPING SYSTEMS. POLYETHYLENE (PE) PIPES AND FITTINGS FOR WATER SUPPLY.

Part 5: Fitness for purpose of the system (First Edition)(8p)

Specifies the characteristics of the fitness for purpose of pipes and fittings assemblies made from polyethylene (PE) for buried or above ground applications, intended for the conveyance of water for human consumption, raw water prior to treatment, drainage and sewerage under pressure, vacuum sewerage under pressure, vacuum sewer system, and water for other purposes.

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MS 375:1992 METHYL DIBROMIDE INSECTICIDE FUMIGANT – SPECIFICATION (6p) M

Covers insecticidal liquefied gas fumigants intended for use in soil, food storage premises and containing methyl bromide and chloropicrin.

MS 376:1992 ETHYLENE-DIBROMIDE INSECTICIDE – SPECIFICATION (6 p) M

Covers insecticidal emulsifiable concentrates containing ethylene dibromide and intended for use as a soil fumigant in plant protection and for use in food storage premises.

MS 378:1991 MINERAL TURPENTINE – SPECIFICATION (2 p) M

Covers the requirements for mineral turpentine (white spirit) for use in thinning paints and varnishes and for other uses.

MS 381:2014 BITUMINOUS ALUMINIUM PAINTS-SPECIFICATION (Second Edition) (8p) M

Covers one type of bituminous aluminium paints for interior and exterior use on primed metal, masonry, asbestos cement, and wood surfaces. It may also be applied to roofing felt, to creosoted timber, and to hard bituminous surfaces that have been allowed to weather for at least 8 weeks before painting.

MS 384:2013 WOOD PRESERVATIVE (METALLIC NAPHTHENATE)-SPECIFICATION (Second Edition) (9p) M

Specifies requirements and methods of sampling and test for metallic naphthenates for wood preservation. It covers metallic naphthenate concentrates and solutions of metallic naphthenate suitable for the preservation of wood.

MS 386:2014 BITUMINOUS PAINTS FOR COLD APPLICATION EXCLUDING USE IN CONTACT WITH POTABLE WATER-SPECIFICATION (Second Edition) (9p) M

Specifies requirements and methods of sampling and test for a range of bitumen-based solvent-borne paints. It covers paints for cold application by brushing, spraying, rolling or dipping processes intended to give a coat for the corrosion protection and water-proofing of substrates including iron and steel.

MS 388:2014 DECORATIVE OIL GLOSS PAINT FOR INTERIOR AND EXTERIOR USE – SPECIFICATION (Second Edition) (12 p) M

Specifies requirements and methods of sampling and test for decorative oil gloss paint (other than emulsion paints) for interior and exterior use as a finishing coat on metal, wood, sealed plaster walls, composition board and similar materials that have been primed or painted previously.

MS 389:2014 ALKALI-RESISTANT PLASTER PRIMER (LATEX-TYPE)- SPECIFICATION (Second edition) (11p) M

Covers a latex-type of alkali-resistant plaster primer for interior and exterior use o conunglazed brick, gypsum plaster-board, fibre-cement boards and other compressed fibre wallboard compositions, but not for use on gypsum plaster surfaces.

MS 390:2019 ALKALI-RESISTANT PLASTER PRIMER (PIGMENTED, SOLVENT- TYPE) – SPECIFICATION (Third Edition) (11p) M

Covers a pigmented , solvent-type of alkali- resistant plaster primer for interior and exterior use on dry cement plaster and concrete, unglazed brick, gypsum plasterboard, fibre-cement boards and other compressed fibre wallboard compositions and on gypsum plaster surfaces pre-sealed with bonding liquid.

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MS 391:2013 VARNISH FOR INTERIOR USE-SPECIFICATION (Second Edition) (12 p) M

Specifies requirements and methods of sampling and test for varnish for interior use. It covers the following two types of varnish for interior use on wooden surfaces.

MS 392:2013 VARNISH FOR WOOD FLOORS-SPECIFICATION (Second Edition) (13p) M

Specifies requirements and methods of sampling and test for varnish for wood floors. It covers two types of varnish for use on interior wood floors.

MS 393:2013 PAINT UNDERCOAT – SPECIFICATION (12 p) M

Covers undercoats for air-drying protective and decorative paints for use on primed steel and timbers and on sealed and primed masonry wall boards, compressed fibre and other materials used in the construction and framing of buildings.

MS 394:2013 ALUMINIUM FINISHING PAINTS-SPECIFICATION (Second Edition) (6 p) M

Specifies requirements and methods of sampling and test for alluminium paints for use as a finishing coat on primed surfaces for exterior and interior exposure. This paint is suitable for use as a roof paint on suitably primed or previously painted galvanized iron.

MS 396:1992 MINERAL SOLVENTS FOR PAINT (WHITE SPIRIT AND RELATED HYDROCARBONS SOLVENTS) – SPECIFICATION (7 p) M

Specifies the requirements for two categories of mineral solvents for use in paints and varnishes and for other purposes.

MS 397:1992 GLAZED CERAMIC SANITARYWARE – SPECIFICATION (17 p) M

Covers wash-hand basins; pedestal sinks water-closet pans, bidets, urinals and flushing cisterns made of fireclay and of vitreous china, ceramic materials.

MS 398:2014 SOLVENT-BASED PAINT REMOVER-SPECIFICATION (Second Edition) (16p) M

Specifies requirements for solvent-based paint removers applied by brush. The paint removers are intended for general use on surfaces of painted, vanished or lacquered wood, plaster or metal. As supplied, paints removers conforming to this standard will be non-flammable and will not be suitable for some substrates (see foreword)

MS 400:2020 PIGEON PEAS – SPECIFICATION AND GRADING (Second Edition) (6 p) M

Specifies the quality and grading requirements and methods of sampling and test for dry pigeon peas of the varieties (cultivars) grown from, *Cajanus cajan* Linn, intended for human consumption. It is locally known as "Nandolo"

MS 403:2020 DRIED FRUITS - SPECIFICATION (First Edition) (6p) M

Specifies requirements and methods of test and sampling for dried fruits, as defined in clause 3.2, which are offered for direct consumption or further processing, including catering purposes or repackaging if required.

MS 407:1992 BLACK POLYETHYLENE PIPES FOR THE CONVEYANCE OF LIQUIDS – METHODS OF TEST (20 p) V

Prescribes methods of test for black polyethylene pipes for the conveyance of liquid.

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MS 408:1992 CREOSOTE FOR WOOD PRESERVATION – SPECIFICATION (6 p) M

Specifies requirements for three types of coal tar creosote for wood preservation.

MS 410:2020 TEA – PREPARATION OF GROUND SAMPLE OF KNOWN DRY MATTER CONTENT (Second Edition) (2p) M

Specifies methods of preparing a ground sample of tea and of determining its dry matter content, for use in analytical determinations which require the results to be expressed on the dry basis.

MS 412:2020 BLACK TEA – SAMPLING (Second Edition) (4p)

Specifies methods for the sampling of tea. It applies to sampling from containers of all sizes.

MS 414-1:2002 MASONRY CEMENT – SPECIFICATION (10 p) M

Specifies requirements for the composition, manufacture, sampling and testing of masonry cement (without air entrainment agents).

MS 415:2014 SUNFLOWER SEEDS FOR THE MANUFACTURE OF OIL-SPECIFICATION (3p) M

Prescribes requirements for sunflower seed of *Helianthus annus* Linn family intended for the manufacture of oil for human consumption.

MS 416:2014 DAIRY CATTLE FEED SUPPLEMENTS-SPECIFICATION (First Edition) (5p) M

This standard specifies minimum requirements for daily cattle feed supplements.

MS 417:1995 MEAT MEAL AND MEAT AND BONE MEAL AS LIVESTOCK FEED - SPECIFICATION (2 p) M

Prescribes requirements for meat meal and meat and bone meal meat for livestock feeding.

MS 420:1992 LEAD ACID STARTER BATTERIES – CODE OF PRACTICE FOR HANDLING AND -OPERATION (24 p) M

Covers the operation and maintenance of lead acid starter batteries (type of batteries used in cars, lorries, tractors and motor cycles). It describes how batteries should be maintained in order to get a longer life from them.

MS 422:1997 FISHMEAL AS LIVESTOCK FEED –SPECIFICATION (2 p) M

Prescribes requirements for fish meal for livestock feeding.

MS 423:1995 BONE MEAL AS LIVESTOCK FEED – SPECIFICATION (2 p) M

Prescribes requirements for bone meal to be used as a mineral supplement in livestock feeds.

MS 424:1997 BLOOD MEAL AS LIVESTOCK FEED – SPECIFICATION (1 p) M

Prescribes requirements for blood meal as livestock feed.

MS 425:2013 SESAME SEEDS FOR THE MANUFACTURE OF OIL – SPECIFICATION (Second Edition) (7P) M

Specifies the requirements, methods of grading, sampling and testing of sesame seed, intended for the manufacture of oil for human consumption

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MS 426:2014 CASTOR SEEDS FOR THE MANUFACTURE OF OIL-SPECIFICATION (6p) M

Specifies requirements for castor seed (*Ricinus communis* Linn), of Euphorbiaceace family for the manufacture of oil along with the relevant methods of sampling and test.

MS 428:2013 IMMERSION TYPE HEATING UNITS FOR ELECTRICAL APPLIANCES-SPECIFICATION (22p) M

Specifies required for five replaceable for types of replaceable immersion-type heating units (see 4.1) intended for use in portable electrical appliances for electrical appliances for heating water or non – corrosive aqueous solutions at d.c voltages of not less than 42V and a.c voltages of not more than 240V between phase and neutral conductor and at a rate load not exceeding 6 Kw.

MS 456:1993 UNPLASTICIZED POLYVINYL CHLORIDE (UPVC) PIPES AND FITTINGS – METHODS OF TEST (19 p) V

Covers methods of test for unplastisized polyvinyl chloride (UPVC) pressure pipes and fittings for conveyance of potable water, pipes and fittings for use in drainage installations above ground and sewer and drain pipes and fittings.

MS 458:2002 RUBBER SEALS – JOINT RINGS FOR WATER SUPPLY, DRAINAGE AND SEWERAGE PIPELINES MATERIAL – SPECIFICATION (13.p) M

Specifies requirements for materials used in vulcanized rubber seals for cold drinking-water supplies (up to 50 ^{o}C); drainage, sewerage and rainwater systems (continuous flow up to 45 ^{o}C and intermittent flow up to 95 ^{o}C).

MS 459:2020 BLACK TEA – VOCABULARY (Second Edition) (8p) M

Provides a list of terms and definitions, applicable to the techniques of processing and assessing black tea for commerce.

MS 460:2008 BLACK TEA – PREPARATION OF LIQUOR FOR USE IN SENSORY TESTS (4p) V

Specifies a method for the preparation of a liquor tea for use in sensory tests, by means of infusing the leaf.

MS 461:1993 CASHEW KERNELS – SPECIFICATION (5 p) M

Specifies requirements and methods of sampling and test for kernels obtained from cashew nuts (*Anacardium occidentale* L).

MS 468:1993 MOSQUITO COILS – SPECIFICATION (6 p) M

Prescribes the physical and active ingredients for mosquito coils.

MS 469:1993 MOSQUITO COILS – METHODS OF TEST (11 p) V

Lays down the methods of testing mosquito coils for their physical, chemical and biological efficacy.

MS 470:1993 HAIR CREAMS – SPECIFICATION (2 p) M

Prescribes requirements for creams and other oil-based emulsion preparations for the hair. These include water-in-oil and oil-in-water emulsions. It does not cover hair oils, brilliantines and pomades.

MS 471:1993 HAIR OILS – SPECIFICATION (3 p) M

Prescribes requirements for hair oils and other oil-based cosmetic preparations for hair. This includes hair tonics and hair oil concentrates.

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MS 475:1993 HAIR SHAMPOO, SOAP BASED – SPECIFICATION (3 p) M

Prescribes the requirements for soap-based hair shampoo. Also applies to shampoo with possible medical effect on the skin, but excludes special shampoos that are only meant for neutralizing purposes.Hair creams which contain ingredients that have an effect on the physiological functions of the body or scalp or the hair or for which medical functions (theurapeutical) claims are made are not covered by this standard.

MS 477:1997 FOOD FOR INFANTS AND CHILDREN – CODE OF HYGIENIC PRACTICE (10 p) M

Provides a code of hygienic practice for all pre-packed foods intended to be for special use for infants and/or children. It contains the minimum hygienic requirements for the handling (including production, processing, packaging, storage, transportation, distribution and sale) of such foods to ensure a safe, sound and wholesome product.

MS 478:2022 SOYABEAN FLOUR – SPECIFICATION (Second Edition) (4p) M

Specifies the requirements, sampling and test methods for soybean flour obtained from soybean (*Giycine max (L.)* Merr) intended for human consumption

MS 479:1997 AVOCADO – SPECIFICATION (2 p) M

Specifies requirements for fresh avocados to be supplied in export and local specified markets. The standard stipulates requirements for handling, grading and packaging of the produce up to dispatching stage.

MS 480:1995 COOKSTOVES, SOLID FUEL – TYPE 1 – METHODS OF TEST (6 p) V

Covers methods of test for solid fuel cookstoves – (Type 1) for the purpose of verification and ascertaining of relevant performance and construction.

MS 481:2021 CITRUS FRUITS – SPECIFICATION (First Edition) (9p) M

Applies to citrus fruits of varieties (cultivars) grown from the following species to be supplied fresh to the consumer, citrus fruits for industrial processing being excluded.

MS 488:2004 WOODEN CEILING AND PANELING BOARDS – SPECIFICATION (10p) M

Covers three grades of profiled boards (planed and sanded) manufactured from hardwood or softwood timber and intended for use in ceilings or paneling.

MS 489-1:2012 WOODEN POLES AND CROSS-ARMS FOR POWER TRANSMISSION, LOW VOLTAGE RETICULATION AND TELEPHONE SYSTEMS (34 p) M

Part 1: Pine poles

Specifies requirements for pine poles, grown in Southern Africa, that are treated with creosote, a mixture of creosote and waxy oil, or a mixture of copper-chromium-arsenic compounds(CCA) , and that are intended to be used as upright supports for street lighting and telephone systems, and as upright supports cross-arms and spacers(in five-pole structures)for power distribution lines.

MS 489-2:2012 WOODEN POLES AND CROSS-ARMS FOR POWER TRANSMISSION, LOW VOLTAGE RETICULATION AND TELEPHONE SYSTEMS (35p) M

Part 2: Eucalyptus poles

Specifies requirements for eucalyptus poles, grown in Southern Africa, that are treated with creosote, a mixture of creosote and waxy oil, or a mixture of copper-chromium-arsenic compounds (CCA) and that are intended to be used as upright supports for communications systems, and as upright supports cross-arms and spacers.

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MS 492:2012 POLYWOOD AND COMPOSITE BOARDERS – SPECIFICATION (25p) M

Covers requirements for materials, construction, preservative treatment, dimensions and performance of plywood and composite board.

MS 493:1995 TIMBER, HARDWOOD FURNITURE – SPECIFICATION (18 p) M

Covers three basic grades of rough-sawn hardwood timber derived from trees of the *Podocarpus* spp, intended for use in the manufacture of furniture.

MS 494:1995 BOARDS, SOFTWOOD FLOORING – SPECIFICATION (15 p) M

Covers the requirements for three grades of softwood flooring boards obtained from timber derived from trees of the general Pinus, Cedrus, Podocarpus and Cupressus grown in Southern Africa.

MS 495:1995 BOARDS, FIBRE-CEMENT – SPECIFICATION (8 p) M

Covers flat and flat-pressed boards manufactured from fibre cement.

MS 496:2012 SOFTWOOD BRANDERING AND BATTENS-SPECIFICATION (24p) M

Specifies requirements for one grade of timber suitable for use as brandering and battens intended for being fixed against beams and joists in roofs for the attachment of ceilings and for the boxing in of eaves, and use as supports on roof trusses for fixing of roofing slates, tiles, wooden shingles and thatch.

MS 498:2008 ILLUMINATING PARAFFIN – SPECIFICATION (3 p) M

Covers a hydrocarbon fuel suitable for use in wick-fed, pressure vaporizing and other paraffin burning appliances for the purposes of illumination.

MS 499:1995 TIMBER, STRESS GRADED SOFTWOOD GENERAL STRUCTURAL – SPECIFICATION (17 p) M

Covers one stress of visually or mechanically structural timber (including finer jointed timber) derived from trees of the general coniferae grown in Southern Africa.

MS 502:1995 SOFTWOOD FURNITURE TIMBER – SPECIFICATION (10 p) M

Covers two grades of rough-sawn timber derived from trees of general of the coniferae grown in Southern Africa and intended for use in furniture manufacture.

MS 503:1995 SOFTWOOD JOINERY TIMBER – SPECIFICATION (11 p) M

Covers one grade of rough - sawn timber derived from trees of the general coniferae grown in Malawi and intended for use in joinery work.

MS 504-1:2009 WOODEN POLES AND SPACER BLOCKS – SPECIFICATION PART 1: SOFTWOOD SPECIES (First Edition) (33p) M

This part of MS 504 specifies requirements for preservative-treated softwood poles, droppers, guardrail posts and spacer blocks. The poles are intended for the erection of fences and vine trellises, for general use in orchards and for structural purposes. The droppers are intended for fencing. The posts and spacer blocks are intended for the erection of steel guardrails at the sides of roads.

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MS 504-2:2009 WOODEN POLES AND SPACER BLOCKS – SPECIFICATION PART 2: HARDWOOD SPECIES (First Edition)(38p) M

This part of MS 504 specifies requirements for preservative-treated softwood poles, droppers, guardrail posts and spacer blocks. The poles are intended for the erection of fences and vine trellises, for general use in orchards and for structural purposes. The droppers are intended for fencing. The posts and spacer blocks are intended for the erection of steel guardrails at the sides of roads.

MS 508:2013 TEXTILES –DETERMINATION OF PH AQUEOUS EXTRACT (5p) M

Specifies a method for determining the pH of the aqueous extract of textiles. The method is applicable to textiles in any form.

MS 509:2010 GALVANISED IRON SHEETS – SPECIFICATION (Second Edition) (7 p) M

Specifies requirements for materials, profile and dimensions of galvanized corrugated and troughed iron sheets for roofing, cladding and other general uses.

MS 510:1997 FISH MEAL – VOCABULARY (1p) V

Defines terms relating to fish meal.

MS 511:2011 ANIMAL FEEDING STUFF – QUANTITATIVE DETERMINATION OF ZEARALENONE CONTENT (8 p) V

Specifies a qualitative method for the determination of zearalenone in animal feeding stuffs and in particular, in maize. This method is for screening purposes only.

MS 512:2009 ANIMAL FEEDING STUFFS-DETERMINATION OF FREE AND TOTAL GOSSYPOL (3p) M

Specifies a method for the determination of the content of free and total gossypol and chemically related substances in animal feeding stuffs. The method is applicable to cotton seed and cotton seed meals and cakes, and to compound feeding stuffs containing these substances. The detection limit for free gossypol is 20 mg/kg and that for total gossypol is 50 mg/kg.

MS 513:2022 SOYBEAN PRODUCTS – DETERMINATION OF UREASE ACTIVITY (First Edition) (4p) M

Specifies a method of determining the urease activity of products derived from soybeans. The method allows inadequate cooking of these products to be detected.

MS 515:2016 DRY FRUITS AND DRIED FRUITS-DEFINITIONS AND NOMENCLATURE (4p) M

Gives definitions of the terms dry fruits and dried fruits, together with the common names, in English, of the most common fruits grown commercially in the world for human consumption; these fruits are marketed in local, national and international markets.

MS 516: 2010 COFFEE AND COFFEE PRODUCTS – VOCABULARY (7p) V

Defines the most commonly used terms relating to coffee and its products.

MS 517:2008 PULSES– DETERMINATION OF GLYCOSIDIC HYDROCYANIC ACID (5p) M

Specifies a method for the determination of glyosidic hydrocyanic acid in pulses. The method is generally applicable but may require modification if sulphides or certain other Sulphur compounds are present. Conversely, if no such compounds are present, a mercurimetric titration procedure may be used, details of which are given in the annex.

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MS 518-1:2010 CEREALS AND PULSES – DETERMINATION OF HIDDEN INSECT INFESTATION

Part 1: General Principles. (3p) V

This part of MS 518 establishes the general principles of methods of determining hidden insect infestation in cereals and pulses.

MS 518-2:2010 CEREALS AND PULSES-DETERMINATION OF HIDDEN INSECT INFESTATION

Part 2: Sampling (5p) V

This part of MS 518 specifies methods of sampling cereals and pulses, in bags or in bulk, for the determination of hidden insect infestation.

MS 518-3:2010 CEREALS AND PULSES-DETERMINATION OF HIDDEN INSECT INFESTATION (4p) V

Part 3: Reference Method

This part of MS 518 specifies the reference method for determining the nature and number of hidden insects in a sample of cereals and pulses. Its aim is to count all the individuals, at every stage of life, of every insect species that normally feeds and develops within cereals and pulses.

MS 518-4:2010 CEREALS AND PULSES-DETERMINATION OF HIDDEN INSECT INFESTATION (21p) V

Part 4: Rapid methods

This part of MS 518 specifies five rapid methods for estimating the degree of or detecting the presence of, hidden insect infestation in a sample of a cereals or pulses.

MS 519:2017 THOBWA POWDER – SPECIFICATION (Second Edition) (3 p) M

This Malawi Standard specifies the requirements and test methods of sampling and test for thobwa powder.

MS 520:2000 ELECTRICITY APPLIANCES FOR HEATING LIQUIDS – SPECIFICATION (5 p) M

Specifies constructional and performance requirements for electrical appliances of rated capacity not exceeding 80 litres for heating liquids for household and similar use and intended for operation on a.c supply voltages not exceeding 250 V to earth and at current ratings not exceeding 16A.

MS 521:2002 CO_2 GAS CARTRIDGES (STEEL) – SPECIFICATION (5 p) M

Specifies the characteristics of refillable, co_2 gas cartridges (steel) of capacities up to 500 g.

MS 522:2000 PACKAGING SACKS – METHODS OF SAMPLING EMPTY SACKS FOR TESTING (2 p) M

Specifies a method of obtaining a representative sample of empty sacks for testing. The standard is applicable when sampling in order to assess the average quality of a consignment of empty sacks. The method is not suitable to sampling for production control.

The method applies to all types of empty sacks.

MS 523:2000 PAPER – DETERMINATION OF TEARING STRENGTH (7 p) V

Specifies a method for determining the tearing resistance of paper. It can also be used for light boards if the tearing resistance is within the range of the instrument.

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MS 524:2003 PAPER AND BOARD – DETERMINATION OF BURSTING STRENGTH AFTER IMMERSION IN WATER (2 p) V

This Malawi Standard specifies a method for the determination of the wet strength of paper and board by measuring its bursting strength after it has been immersed in water for a specified period.

MS 526:1997 VEGETABLE – TANNED OUTERSOLE LEATHER – SPECIFICATION (3 p) M

Covers outer-sole leather tanned with vegetable tanning materials only.

MS 527:1999 SOLAR WATER HEATERS – METHODS OF TEST (13p) V

This Malawi Standard specifies test methods for mechanical qualification, term energy output of solar water heaters.

MS 528:2000 PVC-INSULATED CABLES FOR ELECTRICITY SUPPLY – SPECIFICATION (44 p) M

This standard specifies requirements dimensions for PVC-insulated cables for operation at nominal voltages up to and including 1900 V to armour or earth and 3300 V between conductors.

MS 529-1:2005 REPRODUCTION OF RECONDITIONED TYRES

Part 1: Definitions (3p) V

This part of the specification defines the terms used in the production of reconditioned tyres and includes a diagram illustrating the cross-section of a typical tyre.

MS 529-3:2005 REPRODUCTION OF RECONDITIONED TYRES

Part 3: Repairs (5p) M

This specification covers the requirements for repairs of permissible defects in tyres that are to be reconditioned in accordance with the relevant part of the specification. The method of repair, the materials, and the equipment to be used are also covered.

MS 529-4:2005 REPRODUCTION OF RECONDITIONED TYRES

Part 4: Passenger car tyres – specification (10p) M

This part of the specification covers the requirements for tyres for passenger cars, station wagons, and caravans, that are to be reconditioned (by the use of a hot moulding process) by remoulding or re-treading or top-capping, and for the methods of reconditioning and the equipment to be used.

MS 529-5:2005 REPRODUCTION OF RECONDITIONED TYRES

Part 5: Light truck cross – ply tyres (9p) M

This part of the specification covers the requirements for two classes of cross-ply tyres for light trucks that are to be reconditioned (by the use of a hot moulding process) by remoulding, retreading, or top-capping, and for the methods of reconditioning and the equipment to be used.

MS 529-6:2005 REPRODUCTION OF RECONDITIONED TYRES

Part 6: Bus and truck cross – ply tyres (13p) M

This part of the specification covers the requirements for five classes of cross-ply tyres for buses, trucks, and trailers that are to be reconditioned (by the use of a hot mounding process) by retreading or top-capping, and for the methods of reconditioning and the equipment to be used.

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MS 529-7:2005 REPRODUCTION OF RECONDITIONED TYRES

Part 7: Tyres reconditioned by the procured tread process (14p) M

This part of the specification covers the reconditioning, by the use of a pre-cured tread process, of tyres for passenger cars, station wagons, caravans, light trucks, trucks, and buses.

Requirements are laid down for the casings, the methods of reconditioning, and the equipment to be used as well as for the finished product.

MS 530:2014 FARM IMPLEMENTS-METHOD OF SAMPLING` (Second Edition) (2 p) V

Prescribes the recommended procedures for sampling of agricultural equipment and their components.

MS 531:2012 AGRICULTURAL LIMING MATERIALS – SPECIFICATION (7p) M

This standard prescribes requirements and methods of sampling and test for agricultural liming material (ALM). It covers the various types (or forms) of ALM including limestone (calcitic or dolomitic), dolomite, burnt lime (quicklime), slaked lime (hydrated lime), marl and industrial by-products.

MS 532:1999 BOREHOLE CONSTRUCTION – CODE OF PRACTICE (5 p) M

Covers boring method, drilling diameters and depth, borehole cleaning, alignment and verticality, casing and screens for hand pumps installation and headwork's construction, testing and test methods, sampling and record of strata.

MS 534:2005 DISPOSAL OF EFFLUENTS OF THE DAIRY INDUSTRY – CODE OF PRACTICE (11p) M

This standard specifies requirements and methods of treatment and disposal of effluents from dairy and allied industries. It is a compilation of sources, nature, volumes and pollution effects of the effluents, ways of waste prevention and methods of their treatment and disposal.

MS 538:2023 DIESEL – SPECIFICATION (Third Edition) (6 p) M

This standard prescribes requirements and methods of sampling and test for marketed and delivered automotive diesel fuel.

MS 539:2013 INDUSTRIAL EFFLUENTS – TOLERANCE LIMITS FOR DISCHARGE INTO INLAND SURFACE WATERS (Second edition.) (30 p) M

The standard lays down the tolerance limits sampling guidelines and test methods for industrial effluents discharged into inland surface waters.

MS 542:2023 SORGHUM GRAINS – SPECIFICATION (Second Edition) (9p) M

This Malawi standard specifies the quality and grading requirements and methods of sampling and test for sorghum grains of varieties (cultivars) grown from *Sorghum bicolor* (L.) *Moench* intended for human consumption..i.e. ready for its intended use as human food presented in packaged form or sold loose from the package directly to the consumer.

MS 543:2015 WHEAT PROTEIN PRODUCTS INCLUDING WHEAT GLUEN-SPECIFICATION (4p) M

This Malawi standard prescribes the requirements and methods of test for wheat protein prepared from wheat by various processes. The products are intended for use in foods requiring further preparation and for use by the food processing industry. Wheat gluten or wheat protein products shall not be used for technological reasons e.g coating or processing aids for foods which are gluten –free by nature**.**

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MS 544:2010 WHOLE AND DECORTICATED PEARL MILLET GRAINS – SPECIFICATION (First Edition) (5p) M

This Malawi Standard applies to whole and decorticated pearl millet grains destined for human consumption which is obtained from *Pennisetum americanum* L.

MS 546:2007 POULTRY PROCESSING – CODE OF PRACTICE (7p) M

This code is concerned with poultry, poultry carcasses, poultry parts and other edible portions thereof, which have not yet been treated in any way to ensure their preservation, except that they have been chilled or frozen and are for human consumption, whether by direct sale as such or through further processing. The code applies to all premises in which poultry is slaughtered, packed, or otherwise handled in the course of preparation, and all premises in which poultry parts are processed, packed, or otherwise handled in the course of preparation. It also applies to conditions of transport from all such premises.

MS 549:2001 MILK POWDER HANDLING – CODE OF PRACTICE (9 p) M

This code of practice recommends general hygienic and technological practices for use in the handling (including production, preparation, processing, packaging, transportation and distribution) of milk powder for human consumption to ensure safe, sound and wholesome product.

MS 552:2005 SAFETY OF WELDING – CODE OF PRACTICE (16p) M

This standard establishes the general principles for the protection of persons from injury and illness, and for the protection of property and equipment from damage that can arise from welding processes.

MS 554:2016 PEANUT BUTTER-SPECIFICATION (12p) M

The standard covers the requirements, and methods of sampling and test for peanut butter of two types; smooth texture peanut butter and crunchy texture peanut butter.

MS 555:2013 GLYCERINE FOR COSMETIC INDUSTRY – METHODS OF TEST (Second Edition) (22 p) V

Lays down methods of sampling and test for glycerine. It describes methods for sampling quantities of glycerine, either crude or refined, for industrial use, in the course of filling, or already contained in drums or in transportable or fixed tanks.

MS 556:2012 ANIMAL DRAWN MOULDBOARD PLOUGH-SPECIFICATION (First Edition) (7p) V

This Malawi standard prescribes materials, dimensions and other requirements of fixed type animal drawn mouldboard plough.

MS 557:2013 GLYCERINE FOR COSMETIC USE –SPECIFICATION (Second Edition) (2p) M

This standard specifies requirements for glycerine used as a cosmetic.

MS 559:2022 SOY PROTEIN PRODUCTS – SPECIFICATION (Second Edition) (5p) M

This Malawi standard specifies requirements and methods of sampling and test for soya protein products intended for human consumption.

MS 560:2004 NATURAL MINERAL WATERS - SPECIFICATION (First Edition) (9p) M

This Malawi Standard specifies description, treatment, packaging and sampling requirements for natural mineral waters intended for human consumption. It does not apply to natural mineral water sold or used for other purposes.

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MS 566:1998 WAX SHOE POLISH – SPECIFICATION (5 p) M

Covers requirements for wax shoe polish of any colour, suitable for general application to leather shoes and goods.

MS 569-1:2013 TISSUE PAPER-PART 1: GENERAL REQUIREMENTS (First Edition) (13p) M

This part of MS 569 specifies the general requirements and test methods for, and conditioning of tissue paper and tissue products**.**

MS 569-2:2013 TISSUE PAPER (Second Edition). (9 p) M

Part 2: Toilet paper

This part of MS 569 covers four grades (see **4.1**) of creped toilet paper supplied in rolls

MS 569-3:2013 TISSUE PAPER (First Edition) (9p) M

Part 3: Facial tissues

This part of MS 569 covers tissue paper, in sheet form, for use primarily for facial hygiene.

MS 569-4:2014 TISSUE PAPER (First Edition)

Part 4: Paper towels (9p) M

This part of MS 569 covers paper towels, in rolls and in sheets (single ply and double –ply)-suitable for general and industrial purposes.

MS 569-5:2013 TISSUE PAPER PART 5: DISPOSABLE WIPING PAPER IN ROLLS (First Edition) (10p) M

This part of MS 569 covers three types of tissues paper in rolls, intended for use as wiping paper in industrial, workshop, laboratory, office, agricultural and other environments where hands and tools and other equipment need to be wiped, cleaned or dried.

MS 573:2007 ETHANOL – SPECIFICATION (9p) M

Specifies requirements for four grades of ethanol, i.e. Food grade, industrial grade, analytical grade, and fuel grade ethanol. It applies to ethanol that is of agricultural origin (starch or sugar based).

MS 575:1999 BLEACHING POWDER, STABLE – SPECIFICATION (First Edition) (8p) M

This standard specifies the requirements and methods of sampling and test for stable bleaching powder intended for household and/or industrial use.

MS 577:2001 BENZENE, CLEANING – SPECIFICATION (1 p) M

Covers a hydrocarbon solvent suitable for general clearing purposes and for the clearing of silver platinum contact of telecommunication systems.

MS 588:2003 CHITENJE – SPECIFICATION (3 p) M

This Malawi standard specifies the requirements for chitenje.

MS 590:2002 POLYVINYL ACETATE DISPERSION ADHESIVES FOR WOOD – SPECIFICATION (5 p) M

Covers the chemical, physical and performance requirements for three exposure classes of non-structural synthetic adhesives dispersed in water and based on the polymerization of vinyl acetate or on its co-polymerization**.**

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MS 591:1996 CREOSOTE, WOOD PRESERVING (HIGH TEMPERATURE) – SPECIFICATION (5 p) M

Covers creosote that is derived entirely from coal tar produced by the high-temperature carbonization of bituminous coal, and that is intended for use in the preservation of timber.

MS 592:1996 CREOSOTE, WOOD PRESERVING (LURGI – GASIFICATION PROCESS) – SPECIFICATION (4 p) M

Covers creosote that is derived entirely from coal tar produced by the Lurgi-gasification processing of bituminous coal, and that is intended for use in the preservation of timber.

MS 593:2012 WOOD PRESERVING MIXTURE OF CREOSOTE AND WAXY OIL (8p) M

This specification covers two types of wood-preserving mixtures of creosote and waxy oil for use in the preservation of timber.

MS 596:2005 MIXTURES OF COPPER-CHROMIUM ARSENIC COMPOUNDS FOR TIMBER PRESERVATIVES – SPECIFICATION (5p) M

This specification covers mixtures of copper-chromium-arsenic compounds (in the form of a powder, a granular powder, a paste or a liquid) for timber preservation.

MS 597:2005 BORON TIMBER PRESERVATIVES – SPECIFICATION (4p) M

This Malawi Standard covers requirements for the following two types of boron timber preservatives:
Type I: A sodium borate of a composition corresponding approximately to that of disodium octaborate tetrahydrate ($Na_2B_8O_{13}4H_2O$).

MS 598:2002 SAFETY IN THE WOOD PRESERVATION INDUSTRY – CODE OF PRACTICE (5 p) M

Serves as practical guide on safety and health aspects in and around timber treatment plans. It is applicable to any treatment process in which water borne preservatives, flame retardant organic solvent-based preservation or creosote are used.

MS 599-1:2002 FIBREBOARD PRODUCTS – SPECIFICATION (11 p) M

Part 1: Uncoated fibreboards

This part of MS 599 specifies the characteristics of uncoated fibreboard.

MS 599-2:2002 FIBREBOARD PRODUCTS – SPECIFICATION (8 p) M

Part 2: Coated fibreboards

This part of MS 599 specifies the characteristics of coated fibreboard.

MS 600:2004 LAMINATED TIMBER (GLULAM) – SPECIFICATION (21 p) M

This specification covers the general requirements for softwood and hardwood laminated members that consist of laminations (glued or otherwise) bonded together with the general fibre direction parallel to the longitudinal or curved axis of each member.

MS 601:2014 NUTMEG (WHOLE OR BROKEN AND MACE (WHOLE OR IN PIECES) – SPECIFICATION (Second Edition) (5 p) M

This Malawi Standard specifies requirements for nutmeg, whole or broken, and for mace, whole or in pieces, obtained from the nutmeg tree (Myristica fragrans Houttuyn) for wholesale commercial purposes.

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MS 602:2005 MECHANICAL STRESS GRADING OF SOFTWOOD – TIMBER (FLEXURAL METHOD) – CODE OF PRACTICE (3p) M

This code of practice covers the mechanical stress grading, by the determination of stiffness in bending, of solid timber (free from glued or other joints) derived from trees f the genus Pinus.

MS 608-1:2020 HIGH – PRESSURE DECORATIVE LAMINATES (HPL, HPDL) – SHEETS BASED ON THERMOSETTING RESINS (USUALLY CALLED LAMINATES)(First Edition)(6P) M

Part 1: Classification and specifications for compact laminates of thickness 2 mm and greater

This Malawi standard is applicable to high-pressure decorative laminates (HPL, HPDL) as defined **Clause 3.**
This document gives an overview of the MS 608 series, provides guidance in the selection and application of test methods and specifications contained in MS 608-2 to MS 608-8.

MS 608-2:2020 HIGH – PRESSURE DECORATIVE LAMINATES (HPL, HPDL) – SHEETS BASED ON THERMOSETTING RESINS (USUALLY CALLED LAMINATES)(First Edition)(95P) M

Part 2: Determination of properties

This part of MS 608 specifies the methods of test for determination of the properties of high-pressure decorative laminates (HPL, HPDL) as defined in clause 3.These methods are primarily intended for testing the sheets specified from MS 608-3 to MS 608-8.

MS 608-4:2020 HIGH – PRESSURE DECORATIVE LAMINATES (HPL, HPDL) – SHEETS BASED ON THERMOSETTING RESINS (USUALLY CALLED LAMINATES) (First Edition) (12 p) M

Part 4: Introduction and general information

This part of MS 608 specifies performance requirements for compact laminate (defined in Clause 4) of thickness 2mm or greater intended for interior use.

MS 608-6:2020 HIGH-PRESSURE DECORATIVE LAMINATES (HPL, HPDL)- SHEETS BASED ON THERMOSETTING RESINS (USUALLY CALLED LAMINATES)

Part 6: Classification and specification for exterior-grade compact laminates of thickness 2 mm and greater (First Edition) (11p) M

This part of MS 608 applies to exterior grade compact laminates of thickness 2 mmm and greater. It specifies requirements for standard and frame-retardant laminates intended for use under outdoor weather conditions such as direct sunlight, rain and frost. Two levels of performance are specified; one for moderate exterior conditions and the other for severe exterior conditions.

MS 608-7:2020 HIGH-PRESSURE DECORATIVE LAMINATES (HPL, HPDL)- SHEETS BASED ON THERMOSETTING RESINS (USUALLY CALLED LAMINATES)

Part 7: Classification and specification for design laminates (First Edition) (23p) M

This part of **MS 608** applies to laminates intended for use within a design effect surface having a phenolic based core and a decorative surface, not covered by **MS 608-3** and through **MS 608-6** and **MS 608-8**. Three surface material types (metal, wood veneer, and pearlescent décor) are defined in this document.

MS 608-2 specifies the methods of test relevant to this Malawi standard.

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MS 608-6:2020 HIGH-PRESSURE DECORATIVE LAMINATES (HPL, HPDL)- SHEETS BASED ON THERMOSETTING RESINS (USUALLY CALLED LAMINATES)

Part 6: Classification and specification for alternative core laminates (First Edition) (14p) M

This part MS 608 specifies performance requirements for high pressure decorative laminates (HPL, HPDL) intended for interior use that have core compostions not covered by **MS 608-1** through **MS 608-7**. The core composition types (coloured core and metal reinforced core) are defined in this document.

MS 608-2 specifies the methods of test relevant to this Malawi standard.

MS 609:1995 CEREALS AND PULSES – DETERMINATION OF THE MASS OF 1000 GRAINS (2 p) V

The standard specifies a method for the determination of the mass of 1000 grains of cereals and pulses. The standard is applicable to all cereals and pulses with the exception of seed lots for sowing purposes.

MS 610:1995 CEREALS AND CEREAL PRODUCTS – DETERMINATION OF MOISTURE CONTENT (BASIC REFERENCE METHOD) (5p) V

This Malawi standard specifies the basic reference method for the determination of the moisture content of cereals and cereal products.

The method does not apply to maize, for which an identical method, called the absolute method, is specified in the annex to ISO 6540.

This basic method, which necessitates the employment of special equipment and experienced analysts, is thereof only suitable for use in specialized laboratories, and is intended to serve as a standard for checking and perfecting routine methods for the determination of moisture content (see particularly ISO 712). It is not intended to be used for settling commercial disputes.

MS 612:1997 SORGHUM – DETERMINATION OF TANNIN CONTENT (2 p) V

Specifies a universal method for the determination of tannin content in sorghum grains.

MS 615:2005 WASTE WITHIN HEALTH CARE FACILITIES – HANDLING AND DISPOSAL (CODE OF PRACTICE) (18 p) M

This standard develops criteria for segregation, collection, movement, storage and on-site disposal of waste within healthcare units, biological research facilities, abattoirs and veterinary surgeries.

MS 616:2002 GLAZING PUTTY FOR WOODEN AND METAL WINDOW FRAMES – SPECIFICATION (10 p) M

This specification covers the following two types of putty for glazing of window frames
Type I: Self-setting type for use in primed metal and wooden window frames
Type II: Reaction type for use in primed metal and primed window frames

MS 617-1:2018 PLASTICS PIPING SYSTEMS FOR WATER SUPPLY AND FOR BURIED AND ABOVE-GROUND DRAINAGE AND SEWERAGE UNDER PRESSURE- UNPLASTICIZED POLY (VINYL CHLORIDE) (PVC-U)

Part 1: General (Second Edition) (10p) M

This part of MS 617 specifies the general aspects of unplasticized poly (vinyl chloride) (PVC-U) solid-wall piping systems intended for water supply and for buried and above-ground drainage and sewerage under pressure.

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MS 617-2:2018 PLASTICS IPING SYSTEMS FOR WATER SUPPLY AND FOR BURIED AND ABOVE-GROUND GROUND DRAINAGE AND SEWERAGE UNDER PRESSURE- UNPLASTICIZED POLY (VINYL CHLORIDE) (PVC-U)

Part 2: Pipes (Second Edition) (22p) M

This part of **MS 617** specifies the characteristics of solid-wall pipes made from unplasticized poly (vinyl chloride) (PVC-U) solid-wall piping systems intended for water supply and for buried and above-ground drainage and sewerage under pressure.

MS 617-3:2018 PLASTICS PIPING SYSTEMS FOR WATER SUPPLY AND FOR WATER SUPPLY AND FOR BURIED AND ABOVE-GROUND DRAINAGE AND SEWERAGE UNDER PRESSURE – UNPLASTICIZED POLY (VINYL CHLORIDE) PART 3:FITTINGS

Part 3: Fittings and joints (Second Edition)(32 p) M

This part of MS 617 specifies the characteristics and properties of fittings made from unplasticized poly (vinyl chloride) PVC-U for piping systems intended for water supply and for buried and above-ground drainage and sewerage under pressure.

MS 619:2016 FRUIT JUICES AND NECTARS – SPECIFICATION (Second Edition) (13 p) V

This Malawi standard specifies requirements for fruit juices, fruit nectars and concentrated fruit juices intended for direct human consumption or for further processing

MS 620:2003 STRUCTURED WALL PIPES AND FITTINGS OF UPVC FOR BURRIED DRAINAGE AND SEWERAGE SYSTEMS – SPECIFICATION (33 p) M

This standard covers unplasticized polyvinyl chloride (UPVC) structured wall pipes (including pipe fittings) with an essentially smooth inside surface, of nominal diameter 110 mm up to and including 1000 mm, and intended for buried gravity drainage and sewerage pipe systems for the transportation of soil and waste discharge of domestic and industrial origin. Pipes of larger diameter are considered to be engineering products and are therefore not included in this standard. Where the piping carries industrial discharge, chemical and temperature resistance have to be taken into account.

MS 623:2017 MAHEWU – SPECIFICATION (Second Edition) (5p) M

This Malawi Standard specifies requirements and methods of test and sampling for commercially produced mahewu.

MS 624:2001 NUTRITION LABELLING – REQUIREMENTS (Second Edition) (7 p) M

This Malawi standard specifies requirements, for the nutrition labelling of foods. This applies to the nutrition labelling of all foods except for foods for special dietary uses.

MS 625:2023 USE OF NUTRITION AND HEALTH CLAIMS – REQUIREMENTS (Second Edition) (6 p) M

1.1 This Malawi standard prescribes the requirements for the use of nutrition and health claims in food labelling and in advertising**.**

1.2 This Malawi standard applies to all foods for which nutrition and health claims are made without prejudice to specific provisions under other standards or guidelines relating to foods for special medical purposes**.**

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MS 626:2002 SAFETY HELMETS FOR INDUSTRIAL USE AND FOR FIREMEN – SPECIFICATION (16 p) M

This specification covers three types of safety helmets (with brim or peak) for protection against falling objects and electrical hazards such as may be encountered in industry and during fire-fighting and rescue operations.

MS 627:1998 FIBRE-CEMENT SHEETS FOR ROOFING AND CLADDING (CORRUGATED AND FLAT) – SPECIFICATION (9 p) M

Covers straight corrugated, curved corrugated, flat and flat pressed fibre-cement sheets for roofing and cladding.

MS 629:1996 ASBESTOS – CEMENT DRAIN AND SEWER PIPES – SPECIFICATION (5 p) M

Applies to uncoated asbestos **–** cement pipes intended for underground use as drain or sewer pipes for gravity flow lines.

MS 630:2021 ROASTED COFFEE BEANS AND ROASTED GROUND COFFEE – SPECIFICATION (Second Edition) (9 p) M

This standard prescribes the requirements and methods of sampling and test for roasted and ground coffee.

MS 632:1997 FERTILIZERS – DETERMINATION OF AMMONIACAL NITROGEN CONTENT TITRIMETRIC METHOD (2 p) V

Specifies titrimetric method after distillation, for the determination of the ammoniacal nitrogen content of fertilizers. The method is applicable only in the absence of urea or its derivatives, or cynamide and of organic nitrogenous compounds.

MS 633:2022 MILK POWDERS AND CREAM POWDER – SPECIFICATION (Second Edition) (4 p) M

This Malawi standard **s**pecifies requirements and methods of sampling and test for milk powders and cream powder intended for direct consumption or for further processing in conformity with the description in **section 3** of this standard.

MS 639-1:2013 RETRO – REFLECTIVE REGISTRATION PLATES FOR MOTOR VEHICLES – SPECIFICATION PART 1: BLANK PLATES (ALUMINIUM) (Second Edition) (18P) M

. This part of MS 639, in addition to the relevant national legislation (see foreword), specifies requirements for aluminium blank plates that are intended for use in the production of number plates covered in MS 639-2.

MS 639-2:2013 RETRO – REFLECTIVE REGISTRATION PLATES FOR MOTOR VEHICLES – SPECIFICATION

Part 2: number plates (aluminum)(Second Edition)(23P) M

This part of MS 639, in addition to the relevant national legislation, specifies requirements for aluminium number plates that are intended for use on motor vehicles (including motor cycles and tricycles) and trailers.

MS 639-3:1997 RETRO-REFLECTIVE REGISTRATION PLATES FOR MOTOR VEHICLES – SPECIFICATION

Part 3: Plastics blanks (6 p) M

Specifies requirements for plastics blanks intended for use in the production of the registration plates that are covered by Part 4

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MS 639-4:1997 RETRO-REFLECTIVE REGISTRATION PLATES FOR MOTOR VEHICLES – SPECIFICATION

Part 4: Plastic registration plates (17 p) M

Covers requirements for plastic registration plates that are produced by applying a registration mark and border to plastic blanks and that are intended for use on motor vehicles (including motor cycles and motor tricycles) and trailers.

MS 640:2011 HAND HACKSAW BLADES-SPECIFICATION (14p) M

This specification covers five types of steel hand hacksaw blades of nominal length 300mm and that have a single –toothed edge. The type covered are listed in **4.1**

MS 641:2002 SAFETY HELMETS FOR MOTOR CYCLISTS – SPECIFICATION (24 p) M

This specification covers the requirements for the general design, construction, performance, marking, labelling, and testing of safety helmets for use by motor cyclists on the roads.

MS 642-1:2011 LIGHTS FOR MOTOR VEHICLES (37p) M

Part 1: Incandescent lamps

This part of the specification covers incandescent tungsten filament lamps of the following categories for the use in motor vehicles and trailers.

MS 642-2:2011 LIGHTS FOR MOTOR VEHICLES (11p M)

Part 2: Head lamps

This part of the specification covers the requirements for the photometric properties of headlights emitting an asymmetrical dipped beam, or both, and used in headlight systems meeting left-hand rule-of road requirements.

MS 642-3:2011 LIGHTS FOR MOTOR VEHICLES (22p) M

Part 3: Secondary lights

This part of the specification covers the phometric characteristics of secondary lights for vehicles lights, parking lights, reversing lights, rear registration-plate and lights and end-outline marker lights) and of assemblies of these**.**

MS 643-1:2013 RETRO-REFLECTIVE AND FLOURESENT WARMING SIGNS FOR ROAD VEHICLES-SPECIFICATION

Part 1: Triangles (21) M

This part of specification covers requirements for two types of triangles that are retro-reflective and fluorescent and intended to be carried in motor vehicles operating on public roads.

MS 643-2:2013 RETRO-REFLECTIVE AND FLOURESCENT WARNING SIGNS FOR ROAD VEHICLES-

Part 2: Abnormal load vehicles signs (18 p) M

This part of specification covers requirements for abnormal load signs that are retro-reflective and fluorescent, and that are intended for use on motor vehicles on public roads.

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MS 643-3:2013 RETRO-REFLECTIVE AND FLOURESCENT WARNING SIGNS FOR ROAD VEHICLES-SPECIFICATION

Part 3: Signs other than triangles, chevron signs and abnormal load vehicle signs. (18p) M

This part of the specification covers requirements for signs, including decals, that are retro-reflective and fluorescent, and that are intended to indicate, maximum permissible speed, width of motor vehicles operating on public roads and identification of emergency vehicles.

MS 643-4:2013 RETRO-REFLECTIVE AND FLOURENCENT WARNING SIGNS FOR ROAD VEHICLES-SPECIFICATION (11p) M

Part 4: retro-reflective chevron signs

This part of the specification covers requirements for retro-reflective chevron signs that incorporate a substrate and that are intended for use on motor vehicles that operate on public roads.

MS 643-5:2013 RETRO-RELECTIVE AND FLOURESCENT WARNING SIGNS FOR ROAD VEHICLES-SPECIFICATION (12p) M

Part 5: Retro- reflective chevron decals

This part of the specification covers requirements for retro-reflective warning signs manufactured as protective coated chevron decals having self-adhesive bases of pigmented vinyl or other polymeric material and intended for use on motor vehicles operating on public roads.

MS 644:2014 RESTRAINING DEVICES (SAFETY BELTS) FOR OCCUPANTS OF ADULT BUILD IN MOTOR VEHICLES – SPECIFICATION (First Edition) (49p) M

This specification applies to safety belts and restraint systems which are for installation in vehicles and are intended for separate use, i.e. as individual fitting by persons of adult build occupying forward-facing seats.

MS 647-1:2010 SAFETY GLASS FOR VEHICLES-SPECIFICATION PART1: HIGH PENETRATION-RESISTANT LAMINATED SAFETY GLASS (9p) (M)

This specification covers high penetration-resistant laminated safety glass including bullet-resistant glazing materials for use in vehicles

MS 647-2:2003 SAFETY GLASS FOR VEHICLES – SPECIFICATION (1 p) M

Part 2: Laminated safety glass for vehicles

This specification covers laminated safety glass (excluding windscreens) for use in vehicles.

MS 647-3:2010 SAFETY GLASS FOR VEHICLES-SPECIFICATION PART 3: TOUGHENED SAFETY GLASS (3p) M

This specification covers toughened safety glass for use in vehicles.

MS 649:2014 REAR UNDERRUN PROTECTION DEVICES-SPECIFICATION (4 p) M

This standard covers requirements for rear underrun protection devices and their installation on category M, N and O vehicles having a gross vehicle mass (GVM) exceeding 3,500 Kg and intended for use on public roads, except for the vehicles listed in 1.2.

MS 650:2000 CONDUCTORS IN INSULATED CABLES AND CORDS – SPECIFICATION (12 p) M

This Malawi Standard specifies the nominal cross-sectional areas and requirements, including numbers and sizes of wires and resistance values, for conductors in electric cables and cords of a wide range of types. These conductors include solid and stranded copper and aluminium conductors in cables for fixed installations and flexible copper conductors.

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MS 651:2011 SPADES AND SHOVELS – SPECIFICATION (14p) M

This specification covers the requirements for dimensions, material, construction and strength of four types of spades and ten types of shovels.

MS 652-1:2012 BRAKING (MOTOR AND TOWED VEHICLES, DESIGNED FOR LOW OR FOR USE OFF PUBLIC ROADS) – SPECIFICATION (8p) M

Part 1: Low speed vehicles

This part of MS 652 applies to the braking systems of low speed motor vehicles with a maximum design speed of between 6km/h and 40km/h , and motor vehicles for use off public roads.

MS 652-2:2012 BRAKING (MOTOR AND TOWED VEHICLES, DESIGNED FOR LOW OR FOR USE OFF PUBLIC ROADS) – SPECIFICATION (First Edition) (18p) M

Part 2: Low speed trailers

This part of MS 652 applies to the braking systems of low speed trailers, purely for agricultural and forestry purposes, with a maximum design speed of between 6km/h and 40 km/h.

MS 653:2012 ELECTRICAL CONNECTORS FOR TOWING AND TOWED VEHICLES - SPECIFICATION (12p) M

This specification covers two types of electrical connectors in the form of a socket and plug that will permit interchangeability of electric connectors in the form of a socket and plug that will permit interchangeability of electrical connectors for towing vehicles having electrical equipment operating at nominal voltage of 6, 12, or 24V.

MS 654:2014 ADDITIONAL OF ESSENTIAL NUTRIENTS TO FOODS –GENERAL PRINCIPLES (First Edition) (3p) M

These principles are intended to apply to all foods to which essential nutrients are added.

MS 655-1:2012 GAMING EQUIPMENT – SPECIFICATION (Second Edition)

Part 1: Casino equipment (60 p) M

Specifies constructional and operational requirements for gaming and related equipment that resides on, or is operated on (or both) the gaming floor of a Casino.

MS 655-2:2012 GAMING EQUIPMENT – SPECIFICATION

Part 2: Limited payout gaming equipment (59 p) M

Covers the constructional and operational requirements for gaming equipment operated under a gaming license at a site, other than a Casino, approved by the Legislative Authority.

MS 655-3:2012 GAMING EQUIPMENT – SPECIFICATION (Second Edition)

Part 3: Monitoring and control systems for gaming equipment (13 p) M

Stipulates general hardware and software requirements, and the list of significant events, required by Malawi Gaming Board for Monitoring and Control Systems for gaming.

MS 655-4:2012 GAMING EQUIPMENT – SPECIFICATION (Second Edition)

Part 4: Chips, plagues and tokens (60 p) M

Specifies the constructional and design requirements of chips, plaques and tokens to be used in Licensed premises as specified by Legislation Authorities (LA).

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MS 655-5:2012 GAMING EQUIPMENT – SPECIFICATION (Second Edition)

Part 5: General equipment (18 p) M

This part of MS 655 sets out the requirements for gaming equipment that is added to existing gaming equipment to provide a layer of prizes, additional to those already available on a game's pay table, referred to as jackpots. Such gaming equipment may include prize determination by means of random number generators or may be triggered by some event on a connected GM or gaming table.

MS 656:2002 ADHESIVES FOR USE WITH CERAMIC TILES AND MOSAICS – SPECIFICATION (15 p) M

This Malawi Standard specifies the minimum requirements for adhesives used for fixing ceramic tiles to ensure that they are suitable for their proposed application.

MS 657-1:2004 PORTABLE RECHARGEABLE FIRE EXTINGUISHERS – SPECIFICATION

Part 1: Water type extinguishers (12 p) M

This standard specifies the characteristics of stored pressure, portable rechargeable fire extinguishers of the water type, of capacity in the range 9 ℓ to 10 ℓ (inclusive) and suitable for use on class A fires only**.**

MS 657-2:2004 PORTABLE RECHARGEABLE FIRE EXTINGUISHERS – SPECIFICATION

Part 2: Dry powder type extinguishers (13 p) M

This standard specifies the characteristics of stored-pressure portable rechargeable fire extinguishers of the dry powder type of capacity not exceeding 12 kg and suitable for use on fire of classes A and B.

MS 657-3:2004 PORTABLE RECHARGEABLE FIRE EXTINGUISHERS – SPECIFICATION

Part 3: Foam type extinguishers (13 p) M

This standard specifies the characteristics of stored pressure, portable rechargeable fire extinguishers of the foam type, of capacity not exceeding 10 ℓ and suitable for use on a variety of identified classes of fire.

MS 657-4:2004 PORTABLE RECHARGEABLE FIRE EXTINGUISHERS – SPECIFICATION

Part 4: CO_2 type extinguishers (13 p) M

This Malawi Standard specifies the characteristics of portable rechargeable fire extinguishers of the CO_2 type, of capacity not exceeding 9 kg and suitable for use on fires of classes B and C.

MS 658-1:2004 THE CLASSIFICATION, USE AND CONTROL OF FIRE-FIGHTING EQUIPMENT – CODE OF PRACTICE

Part 1: Portable fire extinguishers (23 p) M

This part of the code of practice covers the classification, selection, installation and control of portable fire extinguishers (excluding non-refillable fire extinguishers) that can be carried by one person. It also covers the conditions under which mobile fire extinguishers may be used.

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MS 658-2:2004 THE CLASSIFICATION, USE AND CONTROL OF FIRE-FIGHTING EQUIPMENT – CODE OF PRACTICE

Part 2: Fire hose reels (4 p) M

This part of the code of practice covers the siting and site control of fire hose reels installed in premises.

MS 659:2002 PNEUMATIC TYRES FOR PASSENGER CARS AND LUGGAGE TRAILERS – SPECIFICATION (11 p) M

This standard applies to new pneumatic tyres primarily designed for use on vehicles of category M1, O1, and O2. It does not apply to tyres designed for speeds exceeding 240 km/h.

MS 660:2002 PNEUMATIC TYRES FOR COMMERCIAL VEHICLES AND TRAILERS – SPECIFICATION (12 p) M

This standard applies to new pneumatic tyres primarily designed for use on vehicles of category M_2, M_3, N_1, N_2, N_3, O_3 and O_4; it does not however apply to:
Tyres of a speed category below 80 km/h; or Tyres designed for cycles and motor cycles.

MS 666-1:2002 COMPONENTS OF PRESSURE PIPE SYSTEMS (PVC-U) − SPECIFICATION

Part 1: Unplasticized poly (vinyl chloride) (PVC-U) pressure pipes (33 p) M

This part of MS 666 specifies requirements for unplasticized poly (vinyl chloride) (PVC-U) pipes and injection-moulded fittings that are intended for above-ground pressure applications for the conveyance of portable water in reticulation systems and for other applications in which continuous temperatures in excess of 25 ^{o}C are not encountered. Minimum wall thicknesses are given, based on a design stress rating of 10 MPa for pipes of nominal outside diameter 90 mm or less and 12.5 MPa for pipes of nominal outside diameter 110 mm and more. Seven classes of pipes and three classes of fittings for reticulation systems are covered.

MS 666-2:2014 COMPONENTS OF PRESSURE PIPE SYSTEMS (PVC-U) – SPECIFICATION (Fourth Edition)

Part 2: Modified poly (vinyl chloride) (PVC-M) pressure pipe systems (30 p) M

This part of MS 666 specifies requirements for modified unplasticized poly(vinyl chloride) (PVC-M) pipes (with integral joints that incorporate rubber sealing/ rings) and fittings (post-formed from pipe made of PVC-M) that are intended for above-ground and below-ground pressure applications for the conveyance of potable water in reticulation systems and for other applications, in which continuous temperatures in excess of 25 ºC are not encountered. Minimum wall thicknesses based on a design stress rating of 18 MPa are given for pipes of normal outside diameter 50 mm to 630 mm. Six classes of pipe are covered, together with post-formed fittings and bends.

MS 667-1:2002 PETROLEUM INDUSTRY – TERMINOLOGY

Part 1: Raw materials and products (12 p) V

Consists of a list of English terms in use in the petroleum industry to indicate raw materials or petroleum products, together with the corresponding definitions.

MS 667-2:2002 PETROLEUM INDUSTRY – TERMINOLOGY

Part 2: Properties and tests (11 p) V

The standard consists of a list of English terms in use in the petroleum industry to indicate properties of petroleum products and test methods, together with the corresponding definitions.

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MS 670:2001 SODIUM SILICATE - SPECIFICATON (First Edition) (12p) M

This standard prescribes the requirements and methods of sampling and test for sodium silicate in solid and liquid forms intended for use in various industries.

MS 671:2002 TOILET SOAP (SUPERFATTED) – SPECIFICATION (4 p) M

This specification covers superfatted toilet soap that incorporates unsaponified matter that imparts beneficial in-use characteristics.

The specification does not cover specialty soaps, such as soap for use by medical personnel, medicated soap, transparent soap and sea-water soap.

MS 675:2005 SAFETY PROCEDURES FOR THE DISPOSAL OF SURPLUS PESTICIDES AND ASSOCIATED TOXIC WASTE – CODE OF PRACTICE (22 p) M

This code of practice covers the following aspects for the safe disposal of pesticides, pesticide waste and empty pesticide containers:

(a) General precautions to be taken during the use of pesticides;

(b) Directives for the disposal of pesticide waste;

(c) Directives for the decontamination and disposal of empty pesticide containers;

(d) Directives for the treatment of pesticide spillages and leakage, and the action to be taken in the case of fires and freight emergencies that involve pesticides.

MS 678:2013 DRINKING WATER QUALITY – CONTROL AND SURVEILLANCE OF WATER IN PUBLIC SUPPLY NET WORKS (second edition) (4p) M

This standard defines the control and surveillance of water in public water supply networks; It also indicates the sample frequency and types of analysis required.

MS 680-1:2012 TECHNICAL DRAWINGS-INDICATION OF DIMENSIONS AND TOLERANCES-PART1: GENERAL PRINCIPLES (First Edition) 36p M

This standard establishes the general principles of dimensioning applicable for all types of technical drawings.

MS 681-34:2012 TECHNICAL DRAWINGS-GENERAL PRINCIPLES OF PRESENTATION-PART 34: VIEWS ON MECHANICAL ENGINEERING DRAWINGS (First Edition) 12p M

This standard specifies rules for the presentation of views additional to those of **ISO 128-30** and applicable to mechanical engineering drawings that follow the orthographic projection methods specified in **ISO 5456-2.** Attention has been given to reproduction requirements, including those of microcopying according to **ISO 6428**.

MS 682-1:2002 WATER QUALITY – SAMPLING

Part 1 – Guidance on the design of sampling programmes and sampling techniques (23 p) V

This part of MS 682 sets out the general principles for, and provides guidance on, the design of sampling programmes and sampling techniques for all aspects of sampling water (including waste waters, sludges, effluents and bottom deposits).

It does not include detailed instructions for specific sampling situations, which are covered in the various other parts of MS 682. Also, it does not include microbiological sampling, which is covered in ISO 19458.

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MS 682-3:2002 WATER QUALITY – SAMPLING (20p) V

Part 3: Guidance on the preservation and handling of water samples

This part of standard gives general guidelines on the precautions to be taken to preserve and transport all water samples including those for biological analyses but not those intended for microbiological analysis.

MS 682-4:2002 WATER QUALITY – SAMPLING (6 p) V

Part 4: Guidance on sampling from lakes, natural and man-made

This part of standard presents detailed principles to be applied to the design of sampling programmes, to sampling techniques and the handling and preservation of samples of water from natural and man-made lakes.

MS 682-5:2012 WATER QUALITY – SAMPLING (15p) V

Part 5: Guidance on sampling drinking water from treatment works and piped distribution systems.

This part of MS 682 establishes principles to the techniques of sampling water intended for human consumption.

MS 682-6:2012 WATER QUALITY – SAMPLING (12 p) V

Part 6: Guidance on sampling of rivers and streams

This standard sets out the principles to be applied to the design of sampling programmes, sampling techniques and the handling of water samples from rivers and streams for physical and chemical assessment.

MS 682-8:2012 WATER QUALITY – SAMPLING (10 p) V

Part 8: Guidance on sampling of wet deposition

This part of MS 682 provides guidance on the design of sampling programmes and the choice of instrumentation and techniques for the sampling of wet deposition. It does not cover measurement of the quantity of rain.

MS 682-9:2012 WATER QUALITY – SAMPLING (First edition) (10 p) V

Part 9: Guidance on sampling from marine waters

This part of MS 682 provides guidance on the principles to be applied to the design of sampling programmes, sampling techniques and the handling and preservation of samples of sea water from tidal waters (for example, estuaries and tidal inlets, coastal regions and the open sea).It does not apply to the collection of samples for microbiological examination. General guidance on sampling for microbiological purposes is given in ISO 8199.The main objectives of this part of MS 682 are specified in 1.1 to 1.4

MS 682-11:2012 WATER QUALITY – SAMPLING (10p) V

Part 11: Guidance on sampling of groundwaters

This part of MS 682 provides guidance on the design of sampling programmes, sampling techniques and the handling of water samples taken from groundwater for physical, chemical and micro-biological assessment. It does not cover sampling related to the day-to-day

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operational control of groundwater abstractions for potable or other purposes, but is concerned with the general surveillance of groundwater quality. Because of the complexity of groundwater systems, many specific sampling applications will require specialist hydrogeological advice which cannot be detailed in this part of MS 682

MS 682-12:2012 WATER QUALITY - SAMPLING (33p) V

Part 12: Guidance on sampling of bottom sediments

This part MS 682 provides guidance on the sampling of sedimentary materials from

- Inland rivers and streams;
- Lakes and similar standing bodies; and
- Estuarine and harbour areas.

MS 682-13:2013 WATER QUALITY - SAMPLING (16p) V

Part 13: Guidance on sampling sludge's from sewage and water treatment work. (16p)

This part of MS 682 gives guidance on the sampling of sludge from wastewater treatment works, water treatment works and industrial processes. It is applicable to all types of sludge arising from these works and also to sludge of similar characteristics, for example septic tank sludge. Guidance is also given on the design of sampling programmes and techniques for the collection of samples.

MS 682-16:2012 WATER QUALITY - SAMPLING (26p) V

Part 16: Guidance on biotesting of samples

This part of MS 682 gives practical guidance on sampling, pretreatment, performance and evaluation of waters in the context of biotesting. Information is given on how to cope with the problems for biotesting arising from the nature of the water sample and suitability of the test design.

MS 682-17:2012 WATER QUALITY – SAMPLING (9p) V

Part 17: Guidance on sampling suspended sediments

This part of MS 682 is applicable to the sampling of suspended solids for the purpose of monitoring and investigating freshwater quality, and more particularly to flowing freshwater systems such as rivers and streams. Certain elements of this part MS 682 may differ and are not necessarily covered here

MS 682-19:2012 WATER QUALITY – SAMPLING (11p) V

Part 19: Guidance on sampling of marine sediments

This part of MS 682 provides guidance for the sampling of sediments in marine areas for analyses of their physical and chemical properties for monitoring purposes and environmental assessments.

MS 682-21:2012 WATER QUALITY – SAMPLING V

Part 21: Guidance on sampling of drinking water distributed by tankers or means other than distribution pipes. (13p)

This part of MS 682 establishes principles to be applied to the techniques of sampling water provided for drinking and for use in the manufacture of food and beverage products.

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MS 684:2003 WATER TAPS (METALLIC BODIES) – SPECIFICATION (13 p) M

This standard covers requirements for four classes of screw-down and non-screw-down metallic water taps (including stop taps) for the supply of water at temperatures not exceeding 75^{o}C. It also covers stopcocks of sizes up to and including 50 mm. It does not cover thermostatic mixer taps, single control mixer taps, metering taps, demand taps or taps of which the bodies are made entirely of a plastics material.

MS 685:2003 WC FLUSHING CISTERNS – SPECIFICATION (8 p) M

This standard covers requirements for hand operated high-level, low-level, near-level and close-coupled cisterns of various flushing capacities and that are designed for a single-flush operation, a dual-flush operation or an interruptible-flush operation.

MS 686:2003 AUTOMATIC SHUT OFF FLUSH VALVES FOR WATER CLOSETS FOR URINAL – SPECIFICATION (6 p) M

This standard covers the requirements for Automatic shut-off flush valves for water closets and urinals that are intended for supplying a pre-set amount of water.

MS 688:2004 UNPLASTICIZED POLY (VINYL CHLORIDE) (PVC-U) SOIL, WASTE AND VENT PIPES AND PIPE FITTINGS – SPECIFICATION (31 p) M

This standard covers unplasticized poly (vinyl chloride) (PVC-U) pipes (including vent pipes) and pipe fittings of nominal sizes 40-160 mm intended for above-ground non-pressure applications for the conveyance of soil (human excrement or faeces) and waste water where continuous temperatures in excess of 60 ^{o}C are not encountered.

MS 689:2004 THE INSTALLATION OF POLYETHYLENE AND POLY (VINYL CHLORIDE) (PVC-U) AND (PVC-M) PIPES – CODE OF PRACTICE (29 p) M

This Malawi Standard is intended to present (in sufficient details for general use) the comparative physical, chemical, and mechanical properties of two types of plastics pipe in common use, to provide guidance in their selection for the conveyance of portable water (and other applications) and to define sound practice in the assembly and installation of such pipework.

MS 691:2005 TOLERANCE LIMITS FOR DOMESTIC SEWAGE EFFLUENTS DISCHARGED INTO IN LAND SURFACE WATERS – SPECIFICATION (2p) M

This standard lays down the tolerance limits for sewage effluents discharged into inland surface waters. It does not cover sewage effluents discharged on land.

MS 695:2004 BATTERY-BASED PHOTOVOLTAIC (PV) SOLAR HOME SYSTEMS – SPECIFICATION (5 p) M

This Malawi Standard specifies the practical minimum requirements for a battery based photovoltaic (PV) system.

MS 696:2004 BATTERY-BASED PHOTOVOLTAIC (PV) SOLAR HOME SYSTEMS – CODE OF PRACTICE (21 p) M

This code of practice specifies the guideline on how a battery based photovoltaic (PV) system should be designed for the system to continue working for a period of between three to five years without problems.

MS 697:2005 INDUSTRIAL NOISE AFFECTING MIXED RESIDENTIAL AND INDUSTRIAL AREA – METHOD FOR RATING (9 p) V

The standard describes methods for determining, at the outside of the building:

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MS 699:2004 BOTTLED DRINKING WATERS OTHER THAN NATURAL MINERAL WATER – SPECIFICATION (8p) M

This Malawi standard specifies the description, treatment, testing, packaging and labelling of water that is not natural mineral water. The water may be offered as packaged non-carbonated ("still") water or as packaged carbonated ("sparkling") water, with or without permitted substances.

MS 700:2002 SOCIAL RESPONSIBILITY – REQUIREMENTS FOR COMBATING CHILD LABOUR (6 p) V

This Malawi Standard specifies requirements of a work environment where an organization

a) Aims to combat or eliminate child labour through the development, maintenance and enforcement of relevant policies, procedures and practices;
b) Needs to demonstrate to interested parties that policies, procedures and practices of the organization are in conformity with the requirements of this standard.

The requirements of this standard shall apply to all industrial labour regardless of size or location of the organization. The standard however does not apply to domestic labour.

MS 701:2005 NATURAL MINERAL WATER-CODE OF PRACTICE (First Edition) (7p) M

This standard recommends general hygiene and technical practices for use in collecting natural mineral water, its treatment, bottling and packaging, storage, transport, distribution and sale for direct consumption so as to ensure a safe, healthy and wholesome product.

MS 702:2004 CAUSTIC SODA, ANALYTICAL AND COMMERCIAL – SPECIFICATION (13 p) M

This Malawi Standard prescribes the requirements, methods of test and sampling requirements for caustic soda, analytical and commercial in the solid and lye forms.

MS 704:2004 CASSAVA AND MAIZE STARCH FOR TEXTILE INDUSTRY – SPECIFICATION (4 p) M

This Malawi Standard covers cassava and maize starch used in the textile industry (mainly cotton) as a textile sizing and finishing material. Cassava starch shall mean the starch obtained from tubers of cassava (Manihot esculenta).

MS 707:2004 STARCHS AND DERIVED PRODUCTS – METHODS OF TEST (16 p) V

This standard covers general methods of test for starches and its derived products. Physical and chemical methods of test for edible starches and starch products are covered in MS 705 and MS 706 respectively.

MS 708:2004 STARCH AND STARCH PRODUCTS – METHODS OF SAMPLING (3 p) V

This Malawi Standard prescribes the sampling apparatus and the methods of sampling, for starches and starch products.

MS 709:2005 FLUORESCENT LIGHTS FOR USE IN PHOTOVOLTAIC (PV) SYSTEMS – SPECIFICAITON (4p) M

This Malawi Standard specifies the minimum requirements for fluorescent tube lights powered with direct current (DC) inverter ballasts for use in photovoltaic PV) systems.

MS 710:2005 SECONDARY CELLS AND BATTERIES FOR SOLAR PHOTOVOLTAIC (PV) ENERGY SYSTEMS – GENERAL REQUIREMENTS AND METHODS OF TEST (8 p) M

This Malawi Standard gives general information relating to the requirements of the secondary batteries used in photovoltaic (PV) solar energy systems and to the typical methods of test used for the verification of battery performances.

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MS 711:2005 CRYSTALLINE SILICON TERRESTRIAL – PHOTOVOLTAIC (PV) MODULES – DESIGN QUALIFICATIONS AND TYPE APPROVAL (29p) M

This Malawi Standard lays down requirements for the design qualification and type approval of terrestrial photovoltaic (PV) modules suitable for long-term operation in general open-air climates, as defined in IEC 60721-2-1. It applies only to crystalline silicon types. Standards for thin-film modules are not covered in this Malawi Standard.

MS 712-1:2005 ACOUSTICS – RECOMMENDED PRACTICE FOR THE DESIGN OF LOW NOISE AT WORKPLACES CONTAINING MACHINERY

Part 1: Noise control strategies (21p) V

This part of MS 712 outlines strategies to be used in dealing with noise problems in existing and planned workplaces by describing basic concepts in noise control (noise reduction, noise emission, noise emission and noise exposure). It is applicable to all types of workplaces and all types of sources of sound which are met in workplaces, including human activities.

It includes those important strategies to adopt when buying a new machine or equipment.

This part of MS 712 deals only with audible sound.

MS 712-2:2005 ACOUSTICS-RECOMMENDED PRACTICE FOR THE DESIGN OF LOW NOISE AT WORKPLACES CONTAINING MACHINERY

Part 2: Noise control measures (24p) M

This part of MS 712 deals with the technical aspects of noise control in workplaces. The various technical measures are stated, the related acoustical quantities described, the magnitude of noise reduction discussed and the verification methods outlined.

MS 712-3:2005 ACOUSTICS-RECOMMENDED PRACTICE FOR THE DESIGN OF LOW NOISE AT WORKPLACES CONTAINING MACHINERY

Part 3: Sound propagation and noise prediction in workrooms (25p) V

In this part of MS 712, sound propagation in a room is considered together with the prediction of sound pressure levels and of noise emission at the workplace.

Details of the description of the physical phenomena involved in a noise prediction scheme are strongly dependent on the situation being considered and the way this situation is modelled (input parameters, calculation techniques).This dependency is surveyed and the methodology of noise prediction is described. Recommendations are provided concerning the use of noise prediction methods are given in Annexes A to E.

MS 713:2005 PLASTIC PRODUCTS – GUIDELINES FOR SAFE MANAGEMENT AND DISPOSAL (12 p) M

This standard outlines general guidance on the identification, environmentally sound management of plastic wastes and their disposal.

MS 717:2005 POLYPROPYLENE GRAIN SACKS – SPECIFICATION (11 p) M

This standard covers the requirements for three sizes of thermoplastic textile bags, namely 50kg, 70 kg and 90 kg bags, made from (slip) resistant tubular woven fabric (of which polypropylene yarns are the major component) and that are suitable for use for the handling, transportation, and storage of whole grain and milled grain.

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MS 719:2005 HAZARDOUS WASTE – MANAGEMENT, CLASSIFICATION AND DISPOSAL – CODE OF PRACTICE (59p) M

This standard provides guidelines for classification, management, treatment and disposal of hazardous waste. Requirements for transportation are also specified.

MS 720-2:2011 PACKAGING OF DANGEROUS GOODS - PACKAGING AND LARGE PACKAGING FOR ROAD AND RAIL TRANSPORT (25p) (M)

Part 2: Large packaging

This standard identifies the various types of large packaging that are suitable for the transport of dangerous goods by road and rail. It describes minimum performance requirements for the large packaging, the procedures to be followed to obtain approval from test stations or certification authorities and gives details of the marking and labelling to be displayed on the large packaging.

MS 721:2005 WOOD PACKAGING MATERIAL – GUIDELINES FOR PHYTOSANITARY MEASURES (6p)M

This standard describes phytosanitary measures to reduce the risk of introduction and/or spread of quarantine pests associated with wood packaging material (including dunnage), made of coniferous and non-coniferous raw wood, for use in national and international trade.

MS 722:2005 LABELLING, PRESENTATION AND ADVERTISING OF PREPACKED GOODS FOR ULTIMATE CONSUMER (7 p) M

This standard specifies requirements for providing information regarding pre-packed goods It sets rules of a general nature applicable to all pre-packed goods put on the market.

MS 724:2006 CORRUGATED BOARD CONTAINERS – SPECIFICATION (9 p) M

This specification covers requirements for the materials and construction of corrugated board containers.

MS 726:2009 STAPLES FOR OFFICE USE – SPECIFICATION (30p) M

This specification covers pre-formed staples for use in standard-duty office stapling machines.

MS 727:2009 OFFICE STAPLERS – SPECIFICATION (5 p) M

This specification covers the requirements for two types of general purpose hand operated staplers (using size 26/6 staples complying with **MS 726**) suitable for use either on a desk or held in the hand, and suitable for severe or moderate service.

MS 728:2009 PAPER CLIPS – SPECIFICATION (4p) M

This specification covers steel wire clips intended for clipping together sheets of paper.

MS 729:2009 PAPER PUNCHES (DESK TOP TYPES) – SPECIFICATION (8 p) M

This standard covers the requirements for three grades of paper punches in two-hole and four hole configuration, suitable for use on desk tops.

MS 730:2005 SOLID WASTE DISPOSAL SITES, GUIDELINES FOR DESIGN – CODE OF PRACTICE (10 p) M

The standard prescribes guidelines for design of solid waste disposal sites taking the form of landfill, and treatment and incineration facilities.

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MS 731:2005: SOLID WASTE DISPOSAL SITES. GUIDELINES FOR SAFE MANAGEMENT – CODE OF PRACTICE (13 p) M

The standard prescribes guidelines for safe management of solid waste disposal sites in the form of landfills, land treatment facility and incinerators.

MS 732:2005 EFFLUENT TREATMENT PLANTS – OPERATING CONDITIONS (CODE OF PRACTICE) (7 p) M

This standard covers the operating conditions for an effluent treatment plant. It does not cover to detail the design parameters of an effluent treatment plant.

MS 733:2005 BOREHOLE AND SHALLOW WELL WATER QUALITY – SPECIFICATION (4 p) M

This Malawi Standard specifies requirements for untreated or raw ground water in borehole and shallow wells suitable for human consumption and all usual domestic purposes.

It does not apply to other sources of ground water. It also does not cover ground water used for agricultural purposes.

MS 734:2013 PLASTIC CARRIER BAGS AND FLAT BAGS – SPECIFICATION Second Edition (3 p) M

This standard specifies requirements for carrier bags and flat bags that are made from thermoplastic materials and are domestically produced or imported for use within Malawi.

MS 735:2006 PLASTIC – FILM AND SHEETING – DETERMINATION OF AVERAGE THICKNESS LENGTH AND WIDTH (4 p) V

This standard specifies the method for the determination of the gravimetric thickness of a sample of plastics film or sheeting (see section 2).

MS 736:2011 TRANSPORTATION OF DANGEROUS GOODS – INTERMEDIATE BULK CONTAINERS FOR ROAD AND RAIL TRANSPORT (47 p) M

This standard establishes the requirements for various types of intermediate bulk container (IBC) suitable for the transport of dangerous goods by road and rail. It describes minimum performance requirements for the IBCs, the procedures to be followed to obtain approval from testing or certification authorities and gives details of the marking and labelling to be displayed on the IBCs.

MS 737-1:2021 EMISSIONS LIMITS

PART 1: –EMISSIONS FROM STATIONARY SOURCES - SPECIFICATION (31 p) M

This Malawi standard specifies maximum allowable limits for particulate matter and other common air pollutants in gaseous emissions from stationary sources. The standard also suggests the mechanisms for reduction or removal of the pollutants.

MS 739:2005 WORKPLACE AIR – DETERMINATION OF MASS CONCENTRATION OF CARBON MONOXIDE-METHOD USING DETECTOR TUBES FOR SHORT-TERM SAMPLING WITH DIRECT INDICATION (5 p) V

This Malawi standard specifies a method for the determination of mass concentration of carbon monoxide present in the air at work places in concentrations greater than 10mg/m^3 using detector tubes.

MS 740:2005 AMBIENT AIR - METHODS OF SAMPLING AND TEST (88 p) V

This standard specifies methods of test for air pollution in ambient air.

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MS 742:2005 WORKPLACE AIR- DETERMINATION OF PARTICULATE LEAD AND LEAD COMPOUNDS –FLAME OR ELECTROTHERMAL ATOMIC ABSORPTION SPECTROMETRIC METHOD (20 p) V

This standard specifies flame and electrothermal atomic absorption spectrometric methods for the determination of the –weighted average mass concentration of particulate lead and lead compounds in workplace air.

MS 743:2009 CANNED BABY FOODS- SPECIFICATION (First Edition) (4p) M

This standard specifies requirements for baby foods intended primarily for use during the normal infant`s weaning period and also for the progressive adaptation of infants and children to ordinary food. They may be either in ready-to-eat form or in dry form requiring reconstitution with water or other suitable liquid. Do not include products covered by the Malawi Standard for Infant Formula (ms 541) or by the Malawi Standard for High protein baby foods (MS 90).

MS 744:2020 USE OF DAIRY TERMS – GENERAL STANDARDS (Second Edition) (3p) V

This Malawi Standard applies to the use of dairy terms in relation to foods to be offered to the consumer or for further processing.

MS 745:2022 MAYONNAISE – SPECIFICATION (Second Edition) (7p) M

This Malawi standard specifies the requirements, sampling and methods of test for mayonnaise intended for human consumption.

MS 747:2010 FRUIT FLAVOURED DRINKS - SPECIFICATION (3 p) M

This Malawi Standard prescribes the requirements and methods of test for fruit flavoured drinks. It covers fruit flavoured drinks made from natural or synthetic colourings, flavourings, emulsions, water, sugar and other permitted optional ingredients. It also applies to products referred to as fruit flavoured cordials.

MS 748:2007 SOYA BEAN MILK AND DRINK – SPECIFICATION (First Edition) (13p) M

This standard specifies the requirements and methods of sampling and test for soya bean milk and drink for human consumption.

MS 749-1:2014 STORAGE OF CEREALS AND PULSES

Part 1: General recommendations for the storage of cereals (19p) M

This part of MS 749 gives general guidance related to the problems of storing cereals. Other aspects of the storage of cereals are dealt with in MS 749-2 and MS 749-3.

MS 749-2:2013 STORAGE OF CEREALS AND PULSES

Part 2: Pesticides recommendation (8p) M

This part of MS 749 gives guidance on the choice of a method of storage of cereals and pulses, and on the practical recommendations for good storage, according to the method chosen. Other aspects of storage of cereals and pulses are dealt with in MS 749-1 and MS 749-3.

MS 749-3:2013 STORAGE OF CEREALS AND PULSES

Part 3: control of attack pest (7p) M

This part of MS 749 gives guidance on means of controlling attack by pests on cereals and pulses during storage.

MS 751:2022 SWEETENED CONDENSED MILKS – SPECIFICATION (Second Edition)(4p)M

This Malawi standard specifies requirements, sampling and test methods for sweetened condensed milks, intended for direct consumption or further processing.

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MS 752:2022 EVAPORATED MILKS – SPECIFICATION (Second Edition) (4p) M

This Malawi standard specifies the requirements and methods of sampling and test for evaporated milks intended for direct consumption or further processing.

MS 753:2023 RAISINS – SPECIFICATION (Second Edition) (5p) M

This standard applies to dried grapes of varieties conforming to the characteristics of *Vitis vinifera* L. which have been suitably treated or processed and which are offered for direct consumption as raisins or sultanas. It also covers raisins packed in bulk containers which are intended for repacking into consumer size containers. This standard does not include a similar dried vine fruit known as dried currant.

MS 754:2013 PROCESSED CEREAL BASED FOODS FOR INFANTS AND YOUNG CHILDREN-SPECIFICATION (8p) M

This Malawi Standard covers processed cereal-based foods intended for feeding infants generally from the age of six months onwards as a complementary food, taking into account infant's individual nutritional requirements, and for feeding young children as part of a progressively diversified diet.

MS 755:2007 GYPSUM ROCK FOR THE MANUFACTURE OF BINDERS – SPECIFICATION (4p) M

This standard gives the specifications for gypsum rock used as raw materials for the manufacture of calcium sulphate binders or as an admixture in the manufacture of other kinds of binders.

MS 756:2007 GYPSUM CORE CORNICE – SPECIFICATION (5p) M

This specification covers gypsum core cornice for use in buildings.

MS 758:2006 DOMESTIC SOLAR WATER HEATERS – SPECIFICATION (10p) M

Specifies the characteristics of domestic solar water heaters.

MS 759:2006 SOLAR WATER HEATERS – CODE OF PRACTICE (19 p) M

This code covers the construction and installation for solar water heater systems.

MS 760:2006 DOMESTIC SOLAR WATER HEATERS – MECHANICAL QUALIFICATIONS TESTS (3 p) M

Specifies test methods for the mechanical qualification of domestic solar water heaters.

MS 761-1:2006 DOMESTIC SOLAR WATER HEATERS

Part 1: Thermal performance using an outdoor test (10 p) M

Describes an outdoor test method for the determination of the thermal performance of domestic solar water heaters.

MS 761-2:2006 DOMESTIC SOLAR WATER HEATERS

Part 2: Thermal performance using an indoor test (4p) M

Specifies an indoor test method for the determination of the thermal performance of domestic solar water heating systems for potable water and of storage capacity not exceeding 0,3 m^3.

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MS 762:2014 STRUCTUAL TIMBER-VISUAL STRENGTH GRADING-BASIC PRINCIPLES (First Edition) 25p M

This standard establishes the basic principles for rules and procedures governing the visual sorting of timber for use in structural applications.

MS 767:2006 CORRUGATED BOARD CONTAINERS – METHODS OF TEST (14p) V

This standard prescribes methods of test for corrugated board containers.

MS 768:2006 LINERS- SPECIFICATION (7p) M

This specification covers liners of nominal grammage in the range 120-180g/m^2 and fluting of nominal grammage in the range 112-180g/m^2 that are used in the manufacture of corrugated containers for packaging purposes.

MS 769:2007 MEAT BURGERS – SPECIFICATION (4 p) M

This Malawi standard prescribes the requirements and methods of sampling for meat burgers made from comminuted meat (beef, lamb and mutton, poultry, pork)

MS 770:2007 FRESH FISH – SPECIFICATION (3p) M

This Malawi standard establishes quality requirements for fish and permissible temperatures and times for the handling, preparation, distribution and packaging of fresh fish.

MS 771:2014 CHOCOLATE AND CHOCOLATE PRODUCTS-SPECIFICATION (First Edition) (7p) M

This Malawi Standard applies to chocolate and chocolate products intended for human consumption and listed in clause 4 of this standard. Chocolate products shall be prepared from cocoa and cocoa materials with sugars and may contain sweeteners, milk products, flavouring substances and other food ingredients.

MS 773:2006 METROLOGICAL AND TECHNICAL REQUIREMENTS FOR NON-AUTOMATIC UNDENOMINATED BEAM SCALES AND BALANCES SUBJECT TO LEGAL METROLOGY CONTROL (4 p) M

This Malawi Standard specifies the metrological and technical requirements for non-automatic, undenominated beam scales and balances that are subject to metrological control in terms of legal metrology legislation.

MS 774-1:2017 NON- AUTOMATIC WEIGHING INSTRUMENTS PART 1: METROLOGICAL AND TECHNICAL REQUIREMENT-TEST (Second Edition) (144p) M

This Malawi Standard specifies the metrological and technical requirements for non-automatic, non self- or semi-self-indicating, ungraduated, and vibrating counter scales that are subject to metrological control in terms of legal metrology legislation.

MS 774-2:2017 NON – AUTOMATIC WEIGHING INSTRUMENTS PART 2: TEST REPORT FORMAT (First Edition) (62p) M

The “TYPE evaluation report” the subject of R 76-2, aims at presenting, in a standardized format, the results of the various tests to which a type of a non-automatic weighing instrument shall be submitted with a view to its approval. These tests are described in Annexes A and B of R 76-1.

MS 775-1:2007 HOT ROLLED STEEL BARS

Part 1: Dimensions of round bars (2p) M

Specifies dimensions of metric series hot-rolled steel round bars.

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MS 775-2:2007 HOT ROLLED STEEL BARS

Part 2: Dimensions of square bars (2p) M

Specifies dimensions of metric series hot-rolled steel square bars.

MS 775-3:2007 HOT ROLLED STEEL BARS

Part 3: Dimensions of flat bars (2p) M

Specifies dimensions of metric series hot-rolled steel flat bars.

MS 775-4:2007 HOT ROLLED STEEL BARS

Part 4: Tolerances of round, square and flat bars – metric series (4p) M

Specifies dimensional tolerances applicable to hot-rolled steel bars supplied in straight lengths in the following product forms

(a) round bars (for dimensions, see MS 775-1);

(b) square bars (for dimensions, see MS 775-2);

(c) hexagonal bars;

(d) octagonal bars; and

(e) flat bars (for dimensions, see MS 775-3).

MS 777:2007 STABILIZED SOIL BLOCKS – SPECIFICATION (11p) M

This Malawi standard specifies the requirements for cement and /or stabilized soil blocks for use in super structures.

MS 779:2007 SOLAR PHOTOVOLTAIC (PV) WIND HYBRID SYSTEM – SPECIFICATION (10 p) M

Covers minimum requirements for domestic stand-alone solar photovoltaic (PV)-wind hybrid systems.

MS 780:2007 SOLAR PHOTOVOLTAIC (PV) WATER PUMPING SYSTEM – SPECIFICATION (15p) M

Covers specifications for solar photovoltaic (PV) water pumping systems for domestic use

MS 782-1:2011 GLASS IN BUILDING – BASIC SODA LIME SILICATE GLASS PRODUCTS

Part 1: Definitions and general physical and mechanical properties (4p) M

This Malawi standard defines and classifies basic glass products, indicates their chemical composition, their main physical and chemical characteristics and defines their general quality criteria.

MS 782-2:2011 GLASS IN BUILDING – BASIC SODA LIME SILICATE GLASS PRODUCTS (6p)

Part 2: Float glass M

This part of MS 782 specifies dimensional and minimum quality requirements (in respect of optical and visual faults) for float glass, as defined in MS 782-1, for use in building.

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MS 782-3:2011 GLASS IN BUILDING – BASIC SODA LIME SILICATE GLASS PRODUCTS (6p)

Part 3: Polished wire glass M

This part of MS 782 specifies dimensional and minimum quality requirements (in respect of optical and visual and wire faults) for polished wire glass, as defined in **MS 782-1**, for use in building.

MS 782-4:2011 GLASS IN BUILDING – BASIC SODA LIME SILICATE GLASS PRODUCTS (4p) M

Part 4: Drawn sheet glass (4 p) M

This part of MS 782 specifies dimensional and minimum quality requirements (in respect of optical and visual and wire faults) for drawn sheet glass, as defined in **MS 782-1**, for use in building

MS 782-5:2011 GLASS IN BUILDING – BASIC SODA LIME SILICATE GLASS PRODUCTS

Part 5: Patterned glass (6 p) M

This part of MS 782 specifies dimensional and minimum quality requirements (in respect of optical and visual faults) for patterned glass, as defined in **MS 782-1**, for use in building.

MS 785-1:2008 STEEL FOR THE REINFORCEMENT OF CONCRETE

Part 1: Plain bars (8 p) M

This part of MS 785 specifies technical requirements for plain bars to be used as reinforcement in concrete.

MS 785-2:2008 STEEL FOR THE REIFORCEMENT OF CONCRETE

Part 2: Ribbed bars (19 p) M

This part of MS 785 specifies technical requirements for ribbed bars to be used as reinforcement in concrete.

MS 785-3:2008 STEEL FOR THE REINFORCEMENT OF CONCRETE

Part 3: Welded fabric (8p) M

This part of MS 785 specifies technical requirements for factory made sheets or rolls of welded fabric, manufactured from steel wires or bars with diameters from 4 mm to 16 mm and designed for the reinforcement of concrete structures and the ordinary reinforcement of prestressed concrete structures.

MS 786:2016 CIGARETTES – SPECIFICATON (Second Edition) (10p) M

This standard specifies the requirements for cigarettes processed, marketed, distributed, or sold in Malawi.

MS 787:2007 TOBACCO AND TOBACCO PRODUCTS – METHODS OF TEST (43 p) V

This standard prescribes the methods of test commonly used for testing of tobacco and tobacco products.

MS 788:2011 THE INSTALLATION OF GLAZING IN BUILDINGS – CODE OF PRACTICE (First Edition)(71p)M

This standard covers methods of glazing and fixing of glazing materials normally used in buildings.

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MS 789-1:2009 SAFETY AND SECURITY GLAZING MATERIALS FOR BUILDINGS PART1: SAFETY PERFORMANCE UNDER HUMAN IMPACT (first edition) (18p) M

This part of MS 789 covers requirements for the performance of safety glazing materials in buildings with regard to injuries (cutting or piercing) sustained on human impact.

MS 789-2:2009 SAFETY AND SECURITY GLAZING MATERIALS FOR BUILDINGS

Part 2: Burglar- resistant and vandal-resistant glazing materials (5p) M

This part of MS 789 covers requirements for the performance of burglar-resistant glazing materials intended for use in areas of buildings that may be subjected to manual attack**.**

MS 789-3:2009 SAFETY AND SECURITY GLAZING MATERIALS FOR BUILDINGS PART 3: BULLET-RESISTANT GLAZING MATERIALS (First edition) (8p) M

This part of MS 789 covers requirements for the performance of bullet resistant glazing materials intended for use in areas of buildings that may be subjected to attack by firearms.

MS 791-2:2014 THE STRUCTURAL USE OF MASONRY – CODE OF PRACTICE PART 2: STRUCTURAL DESIGN AND REQUIREMENTS FOR THE REINFORCED AND PRESTRESSED MASONRY (First edition) (58p) M

This part of MS 791 establishes general principles for the structural design of reinforced and prestressed masonry.

MS 793-1:2013 THE STRUCTURAL USE OF STEEL (First edition) (89p) M

Part 1: Limit-state design of hot rolled steelwork

This standard provides rules and requirements for the design, fabrication and erection of steel structures. The design is based on limit states. The term" steelwork" refers to structural members and frames that consist primarily of hot-rolled structure steel components, and includes the detail parts , welds, bolts , fasteners and other items required in fabrication and erection. This standard also applies to structural steel components in structures framed in other materials.

MS 793-2:2013 THE STRUCTURAL USE OF STEEL (First edition) (59p) M

Part 2: Limit-state design of cold-formed steelwork

This part of MS 793 applies to the design, based on limit states, of structural members cold-formed to shape, from carbon or low-alloy steel sheet, strip or plate of thickness up to 25mm and intended for load-carrying purposes in buildings. For applications other in buildings, supplementary codes of practice may have to be used to take account of different structural loads and effects, environments or service conditions

MS 794-1:2011 THE STRUCTURAL USE OF CONCRETE (168p) M

Part 1: Design

This part of Malawi Standard establishes principles for the structural use of concrete under the following stipulations:

a) methods of design: limit states classified as ultimate limit state and serviceability limit states;
b) material: ordinary concrete of normal and low density, used in reinforced, prestressed and precast structures or elements and in plain concrete walls;
c) types of structures: buildings and structures in which all load –bearing elements (e.g. slabs, columns, walls, beams etc.) are of concrete

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MS 794-2:2014 THE STRUCTURAL USE OF CONCRETE PART2: MATERIALS AND EXECUTION OF WORK (First Edition) 54p M

This part of Malawi standard covers the materials and execution of work related to the structural use of concrete in buildings and structures where the design of reinforced, prestressed and precast concrete is entrusted to appropriately qualified structural or civil engineers and the execution of the work is carried out under the direction of appropriately qualified supervisors.

MS 798:2021 INSTANT NOODLES - SPECIFICATION (Second Edition) (7p) M

This standard applies to various kinds of noodles. The instant noodle may be packed with noodle seasonings, or in the form of seasoned noodle and with or without noodle garnish (s) in separate pouches, or sprayed on noodle and ready for consumption after dehydration process. This standard does not apply to pasta.

MS 801:2010 HONEY – METHODS OF TEST (21p) M

This Malawi standard prescribes the methods of test for the analysis of honey.

MS 802:2009 CHEDDAR – SPECIFICATION (5p) M

This standard applies to cheddar intended for direct human consumption or further processing in conformity with the description in **clause 3** of this standard.

MS 803:2017 FERMENTED MILKS – SPECIFICATION (First edition) (10p) M

This Malawi standard applies to fermented milks, that is fermented milk including, heat treated fermented milks, concentrated fermented milks and composite milk products based on these products, for direct consumption or further processing in conformity with the definitions in section 3 of this Malawi standard. This Malawi standard shall not apply to yoghurts. The requirements for yoghurts are specified in MS 191.

MS 804:2015 CODE OF HYGIENIC PRACTICE FOR GROUNDNUTS (14p) M

This code of hygienic practice applies to groundnuts, also known as peanuts or earth nuts (Arachis hypogaea).

MS 805:2009 BIODIESEL FUEL – SPECIFICATION (First Edition) (10p) M

This Malawi Standard specifies requirements and test methods for marketed and delivered biodiesel to be used either as automotive fuel for diesel engines at 100% concentration, or as an extender for automotive fuel for diesel engines.

At 100 % concentration it is applicable to fuel for use in diesel engine vehicles designed or subsequently adapted to run on 100 % biodiesel.

MS 807:2011 LUNCHEON MEAT – SPECIFICATION (First Edition) (5p) M

This Malawi Standard applies to products designated as “Luncheon meat” which have been packed in any suitable packing material.

MS 808:2011 COOKED CURED CHOPPED MEAT – SPECIFICATION (First Edition) (5p) M

This Malawi Standard applies to products designated as “chopped meat” which have been packed in any suitable packaging material.

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MS 809:2011 UHT MILK – SPECIFICATION (First Edition) (7p) M

This Malawi Standard specifies the requirements and methods of sampling and tests for UHT milk.

MS 811:2009 POTATO CRISPS - SPECIFICATION (First Edition) (8p) M

This standard specifies requirements for potato crisps made from tubers of the potato (Solanum tuberosum L.)

MS 812:2012 BOTTLED DRINKING WATER OTHER THAN NATURAL MINERAL WATER-CODE OF PRACTICE (8p) M

This code recommends general techniques for collecting, processing, packaging, storing, transporting, distributing, and offering for sale a variety of drinking waters(other than natural mineral water) for direct consumption. A bottled/packaged drinking waters other than nature mineral water are covered by this code. This code does not cover recommendations for collecting, processing and marketing of natural mineral water.

MS 813:2009 SULPHURIC ACID FOR USE IN LEAD-ACID BATTERIES - SPECIFICATION (First Edition) (17p) M

This standard specifies the limit for impurities in sulphuric acid suitable for use in lead-acid batteries.

MS 815:2010 ORGANIC PRODUCTS - GENERAL STANDARD (37 p) V

This standard provides general requirements for organic agricultural products. It covers care for the environment, plant production, livestock production, beekeeping, the collection of wild organic products and the processing and labelling and verification (inspection and certification) of the product there from. It does not apply to wild mushrooms.

MS 816:2011 DAIRY FAT SPREADS - SPECIFICATION (3p) M

This Malawi standard applies to dairy fat spreads intended for use as spreads for direct consumption or for further processing.

MS 817:2011 DRIERS FOR PAINTS AND VANISHES - SPECIFICATION (5p) M

This Malawi Standard specifies requirements and methods of sampling and test for solid and liquid dries for paints, varnishes and related products. The requirements relate to dries in solid or liquid form.

MS 819-1:2014 TITANIUM DIOXIDE PIGMENTS FOR PAINTS

Part 1: Specifications and methods of test (10p) V

This part of MS 819 specifies the requirements and corresponding methods of test for titanium dioxide pigments for paints.

MS 820:2010 CODE OF PRACTICE FOR DESIGN LOADINGS FOR BUILDINGS (First Edition) (49p) M

The aim of this code is to provide general structural design procedures and minimum design loads to be used in the design of buildings and their structural elements. This code does not cover dynamic loading due to plant and machinery nor loads incidental to construction methods.

MS 822:2010 ROAD VEHICLES –INSPECTION AND TESTING OF IMPORTED USED MOTOR VEHICLES (17 p) M

This Malawi standard specifies the safety related performance characteristics of used motor vehicles and their inspection and tests for roadworthiness.

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MS 823:2011 DRIERS FOR PAINTS AND VARNISHES-METHOD OF TEST (17p) V

This Malawi standard specifies methods of test for driers for paints, varnishes and related products. Some methods of test apply to driers in solid form only while others apply to driers in liquid form only and while yet others apply to both solid driers and liquid driers.

MS 830:2021 MANGO ACHAR – SPECIFICATION (First Edition) (4p) M

This Malawi Standard specifies requirements for mango achar, also known as achaar or archar, offered for direct consumption or further processing, including for catering purposes or for repackaging if required.

MS 831-3:2016 ROTATING ELECTRICAL MACHINES PART 3: SPECIFIC REQUIREMENTS FOR CYLINDRICAL ROTOR SYNCHRONOUS MACHINES (First Edition) (19p)

This part of MS 831 applies to three-phase cylindrical rotor synchronous machines, having rated outputs of 10 MVA (or MW) and above, It supplements the basic requirements for rotating machines given in MS 831-1. The special requirements of machines continuously fed by inverters are not covered by this standard.

MS 831-5:2016 ROTATING ELECTRICAL MACHINES PART5: DEGREES OF PROTECTION PROVIDED BY THE INTEGRAL DESIGN OF ROTATING ELECTRICAL MACHINES (IP CODE) – CLASSIFICATION (First Edition) (16p)

This standard applies to the classification of degrees of protection provided by enclosures for rotating electrical machines. It defines the requirements for the protective enclosures that are in all other respects suitable for their intended use and which, from the point of view of materials and workmanship, ensure that the properties dealt with in this standard are maintained under normal conditions of use.

MS 831-7:2016 ROTATING ELECTRICAL MACHINES PART 7: CLASSIFICATION OF TYPES OF CONSTRUCTION, MOUNTING ARRANGEMENTS AND TERMINAL BOX POSITION (IM CODE)(First Edition)(19p) M

This part of part of MS 831 specifies the IM Code, a classification of types of construction of types of construction, mounting arrangements and the terminal box position of rotating machines.

MS 831-11:2016 ROTATING ELECTRICAL MACHINES PART 11: THERMAL PROTECTION (First Edition) (7p) M

The part of MS 831 specifies requirements relating to the use of thermal protectors and thermal detectors incorporated into the stator windings or placed in other suitable positions in induction machines in order to protect them against serious damage due to thermal overloads.

MS 831- 22:2016 ROTATING ELECTRICAL MACHINES PART 22: AC GENERATORS FOR RECIPROCATING INTERNAL COMBUSTION (RIC) ENGINE DRIVEN GENERATING SETS (Second Edition) (14p) M

This part of MS 831 establishes the principal characteristics of a.c generators under the control of their voltage regulators when used for reciprocating internal combustion (RIC) engine driven generating set applications and supplements the requirements given in MS 831-1. It covers the use of such generators for land and marine use, but excludes generating sets used on aircraft or used to propel land vehicles and locomotives.

MS 831-23:2016 ROTATING ELECTRICAL MACHINES PART 23: SPECIFICATION FOR THE REFURBISHING OF ROTATING ELECTRICAL MACHINES (First Edition) (15p) M

This technical Specification covers the activities necessary to ensure the satisfactory rewinding and refurbishment of all types and sizes of rotating electrical machines covered by MS 831.

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MS 833:2013 THERMOSTATS FOR ELECTRIC STORAGE WATER HEATERS-SPECIFICATION (10p) V

This Malawi Standard covers two types of thermostats that have contact breakers of the air-break type, for use in thermostatically controlled electric storage water heaters. The thermostats are intended for use in circuits at voltages not exceeding 240 V between phase and neutral and current ratings not exceeding 30 A.

MS 834:2013 ENERGY REGULATORS FOR ELECTRIC HEATING UNITS-SPECIFICATION (8p) M

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This Malawi Standard specifies requirements for energy regulators for electric heating units for household and similar use. It covers class 1 and II regulators that have rated currents not exceeding 20 A and that are suitable for use in a.c circuits for substantially resistive loads with a power factor not less than 0.95 at voltage between 220 V and 240 V between phase and neutral conductors.

MS 837:2011 QUICK FROZEN FISH FILLETS-SPECIFICATION (6p) M

This Malawi Standard provides requirements for quick frozen fillets of fish as defined below and offered for direct consumption. It does not apply to products indicated as intended for further processing or for other industrial purposes.

MS 838:2011 CONCRETE WORKS - CODE OF PRACTICE FOR MINOR WORKS (First Edition) (16 p) M

This Malawi Standard covers concrete works in foundations, slabs, stairways, masonry walls, pipelines, manholes, latrines, conservancy tanks, septic tanks and the like, where the design and supervision of plain, reinforced and precast concrete are not necessarily under the direct control of appropriately qualified engineers and technologists and no special finishes to the concrete are required.

MS 839:2013 QUICK FROZEN SHRIMPS OR PRAWNS - SPECIFICATION (6p) M

This Malawi Standard provides requirements for quick frozen raw or partially or fully cooked shrimps or prawns peeled or unpeeled.

MS 840:2011 ABOVE-GROUND STORAGE TANKS FOR PETROLEUM PRODUCTS. (58p) M

This standard contains recommendations for the above-ground storage and handling of petroleum products at consumer installations with a total storage capacity not exceeding 200 m^3

MS 841:2011 D-IRON BRACKET AND INSULATOR ASSEMBLY - CHARACTERISTICS AND TEST METHOD (12p) M

This Malawi standard specifies the requirements of D-iron bracket galvanized complete with bolt and nut with ceramic insulator assemblies for a,c overhead lines. Electrical, mechanical and dimensional characteristics are covered in this standard.

MS 842:2011 AGGREGATES FROM NATURAL SOURCES - AGGREGATES FOR CONCRETE - REQUIREMENTS AND TEST METHODS (13p) M

This standard specifies requirements and test methods for fine and coarse aggregates from natural sources for use in concrete.

MS 843:2013 CODE OF PRACICE FOR THE PREVENTION AND REDUCTION OF AFLATOXIN CONTAMINATION IN GROUNDNUTS (7p) M

This Malawi Standard provides guidance for all interested parties producing and handling groundnuts for human consumption, and all other users feeding into the food chain. All groundnuts should be prepared and handled in accordance with MS 21, which is relevant for all foods being prepared for human consumption. This code of practice indicates the measures that should be implemented by all persons that have the responsibility for assuring that food is safe and suitable for consumption, in order to prevent or reduce aflatoxin contamination in groundnuts.

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MS 844:2011 COAL MINING AND PROCESSING - HEALTH SAFETY, AND ENVIRONMENTAL PROTECTION – CODE OF PRACTICE (15 p) M

This Malawi Standard covers the requirements for the health and safety for the workers and the general public and the environmental protection in the mining and processing of coal.

MS 845-2:2011 TRANSPORT OF DANGEROUS GOODS - EMERGENCY INFORMATION SYSTEMS

Part 2: Emergency information system for rail transport (15 p) M

This part of MS 845 covers the rules and procedures that govern the implementation of an emergency information system for rail transportation of dangerous goods, in quantities that exceed the exempt quantity.

MS 845-3:2011 TRANSPORT OF DANGEROUS GOODS - EMERGENCY INFORMATION SYSTEMS

Part 3: Emergency response guides (5p) M

This part of MS 845 covers standard procedures of initial response, in the form of Emergency Response Guides (ERGs) that are to be followed by a first responder upon arrival at the scene of an incident that involves the transport of materials that are classified as dangerous goods in accordance with MS 848. The ERGs are intended to be used by the first responder or by the emergency services until more detailed information on the properties of each material and its treatment becomes available. An ERG is compiled for a group of materials that share the same emergency response. ERGs facilitate the early assessment of the potential hazards and indicate the response that should be taken to mitigate the incident.

MS 846:2014 STRUCTURE TIMBER – MACHINE STRENGTH GRANDING-BASIC PRINCIPLES (21p) M

This Malawi standard establishes the basic principles for rules and procedures governing the machine sorting of timber for use in structural application

MS 847:2011 TRANSPORT OF DANGEROUS GOODS OPERATIONAL REQUIREMENTS FOR ROAD VEHICLES (131 p) M

This standard establishes rules and procedures for the safe operation and handling of all road vehicles that are used for the transport of dangerous goods in accordance with the load constrains. The procedures include requirements for the consignor, the consignee, the operator, the driver and the qualified person as well as en route procedures and cargo handling.

MS 849:2011 TRANSPORT OF DANGEROUS GOODS DESIGNED, CONSTRUCTION, TESTING APPROVAL AND MAINTENANCE OF ROAD VEHICLES AND PORTABLE TANKS (12p) M

This standard covers requirements for the design, construction, testing, approval and maintenance of road vehicles of GVM equal to or above 3500 kg, and portable tanks used to transport dangerous goods as classified in MS 848 and as required by the relevant national legislation.

MS 850:2011 CLASSIFICATION OF COALS (7p) V

This Malawi Standard describes a simple classification system for coals providing guidance on the selection of the appropriate standard procedures for the analyses and testing of coals, international comparison of coals in terms of some key characteristics, descriptive categorization of coals.

MS 851:2011 COAL AND COKE, ANALYSIS AND TESTING – DETERMINATION OF TRACE ELEMENT - GUIDANCE TO THE DETERMINATION OF TRACE ELEMENTS (15p) V

This standard compares methods used for the determination of trace elements in coal ash. The trace elements include: arsenic, beryllium, boron, cadmium, chlorine, chromium, cobalt, copper, fluorine, lead, manganese, mercury, nickel, selenium and zinc. Also included are vanadium and molybdenum

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MS 852:2011 COAL AND COKE, ANALYSIS AND TESTING – DETERMINATION OF TRACE ELEMENTS-GUIDANCE TO THE DETERMINATION OF TRACE ELEMENTS-COAL COKE AND FLY –ASH-DETERMINATION OF ELEVEN TRACE ELEMENTS-FLAME ATOMIC ABSORPTION SPECTROMETRIC METHODS (18p) V

This standard sets out a method for the preparation of the ash and a flame atomic absorption spectrometric method for the determination of barium, beryllium, chromium, copper, lead, lithium, manganese, nickel, strontium, vanadium and zinc ash prepared in the laboratory from higher rank coal, coke and fly-ash.

MS 853:2011 COAL AND COKE –ANALYSIS AND TESTING –DETERMINATION OF TRACE ELEMENTS– DETERMINATION OF ARSENIC, ANTIMONG AND SELENIUM HYDDRIDE GENERATION METHODS (5p) V

This standard sets out a method for the determination of arsenic, antimony and selenium in higher rank coal and coke by hydride generation.

MS 854:2011 COAL AND COKE-ANALYSIS AND TESTING - DETERMINATION OF TRACE ELEMENTS-DETERMINATION OF BORON CONTENT - ICP AES METHODS (5p) V

This standard sets out a method for the determination of boron in higher rank coal and coke using an inductively-coupled plasma atomic emission spectrometer after ashing of the coal or coke in the presence of Eschka mixture.

MS 855:2011 COAL AND COKE-ANALYSIS AND TESTING- HIGHER RANK COAL ASH AND COKE ASH MAJOR AND MINOR ELEMENTS – ACID DIGESTION/FLAME ATOMIC ABSORPTION SPECTROMETRIC METHOD (12p) V

This standard sets out methods for determination of silicon, aluminium, iron, calcium, magnesium, sodium, potassium, titanium and manganese in higher rank coal ash and coke ash by flame atomic absorption spectrometry after acid digestion.

MS 856: 2011 HARD COAL - DETERMINATION OF CAKING POWER - ROGA TEST (5 p) V

This standard specifies a method of determining the caking power of hard coal by the Roga test.

MS 857:2011 COAL - BURNING APPLIANCES (REDUCED SMOKE EMISSION TYPE) – REQUIREMENT AND TEST METHODS (13 p) V

This specification covers the constructional and performance requirements for coal-burning appliances of three types that are free-standing and that operate with minimum smoke emission.

MS 858:2023 SOLID BIOFUEL – SUSTAINABLE CHARCOAL AND CARBONISED BRIQUETTES – SPECIFICATION (SECOND EDITION) (20P) M

Specifies requirements and methods of sampling and testing for sustainably produced charcoal and carbonized briquettes are derived from wood forest, plantation, sustainably harvested wood and other forest products, by-products and residues from wood processing industry, chemically in treated wood, herbaceous biomass, fruit biomass, aquatic biomass , agro-industrial residues.

MS 859:2011 MOISTURE CONTENT OF COAL SAMPLES INTENDED FOR GENERAL ANALYSIS (VACUUM WOVEN-COAL METHODS) (2 p) V

This standard specifies the vacuum-oven method for the determination of the moisture content of coal samples intended for general analysis.

MS 860:2011 MOISTURE CONTENT OF COAL SAMPLES INTENDED FOR GENERAL ANALYSIS (3 p) V

This standard specifies a method for the determination of the moisture content of coal samples intended for general analysis.

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MS 861:2011: CARBON DIOXIDE CONTENT OF COAL (TITRIMETRIC METHOD) (4 p) V

This standard specifies a volumetric method for the determination of the carbon dioxide content of coal.

MS 862:2011 COKING PROPERTIES OF COAL (RUHR DILATOMETER TEST) (10p) V

This standard specifies a method for the determination of the coking properties of coal by using the Ruhr dilatometer.

MS 867:2011 YIELDS OF TAR, WATER, GAS AND COKE RESIDUE FROM COAL BY LOW TEMPERATURE DISTILLATION (6p) V

This standard outlines the methods for determining the yields of tar, water, gas, and coke residues from coal by temperature distillation.

MS 870:2011 COAL – DETERMINATION OF FORMS OF SULPHUR (14p) V

This standard specifies methods of determining the sulphate and pyritic sulphur contents of coals, including brown coals and lignites, and of calculating the amount of organic sulphur present.

MS 871:2011 HARD COAL – DETERMINATION OF MOISTURE–HOLDING CAPACITY (8p) V

This standard specifies a method of determining the moisture-holding capacity of hard coals.

MS 872:2011 HARD COAL – DETERMINATION OF THE CRUCIBLE SWELLING NUMBER (6 p) V

This Malawi standard specifies a method for determining the swelling properties of hard coal when heated in a covered crucible.

MS 873:2011 HARD COAL - DETERMINATION OF TOTAL MOISTURE (6p) V

This Malawi standard describes two methods for determination of total moisture content of hard coals, a two-stage method and a single-stage method. For either method there is a choice between drying in a nitrogen atmosphere. Depending on the coal rank, there may be systematic differences between the results obtained by drying in the different atmospheres on subsamples of same sample. Drying in the nitrogen atmosphere is suitable for all hard coals, while drying in air is only suitable for hard coals not susceptible to oxidation.

MS 874:2011 COAL – DETERMINATION OF PLASTIC PROPERTIES-CONSTANT-TORQUE - GIESELER PLASTOMETER METHOD (11p) V

This standard specifies a method for obtaining a relative measure of the plastic behaviour of coal when heated under prescribed conditions. The method may be used to obtain values of plastic properties of coals and blends used in carbonization and in other situations where determination of plastic behaviour of coals is of practical importance**.**

MS 875:2011 BUILDING ENVIRONMENT DESIGN-INDOOR ENVIRONMENT – GENERAL PRINCIPLES (11p) M

This Malawi standard establishes the general principles of building environment design taking into account healthy indoor environment for the occupants, and protecting the environment for future generations. This Malawi Standard promotes an approach in which the various parties involved in building environmental design collaborate with one another to provide a sustainable environment.

MS 876:2011 BUILDING ENVIRONMENT DESIGN GUIDELINES TO ASSESS ENERGY EFFICIENCY OF NEW BUILDING (15p) V

This standard gives guidelines related to energy efficiency in buildings as introduced in MS 875.

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MS 877:2011 ENERGY MANAGEMENT SYSTEMS REQUIREMENTS WITH GUIDANCE FOR USE (22p) V

This specifies requirements for establishing, maintaining and improving an energy management systems, whose purpose is to enable an organization to follow a systematic approach in achieving continual improvement of energy performance, including energy efficiency, energy use and consumption.

MS 878:2011 HARD COAL AND COKE - DETERMINATION OF VOLATILE MATTER (7 p) V

This standard specifies a method of determining the volatile matter of hard coal and coke. It is not applicable to brown coals and lignites.

MS 879:2013 POTATOES - SPECIFICATION (4p) M

This Malawi Standard defines the quality requirements for baby (early) and ware potatoes of varieties (cultivars) grown from Solanum tuberosum L. and its hybrids, to be supplied fresh to consumer. It excludes baby and ware potatoes for industrial processing.

MS 882:2012 SELF-BALLASTED LIGHT EMITTING DIODES LAMPS FOR GENERAL LIGHTING PURPOSES-PERFORMANCE REQUIREMENTS (8p) M

This Malawi standard specifies the performance requirements for self-ballasted Light Emitting Diodes (LED) lamps with a supply voltage up to 250 v, together with the test methods and conditions required, intended for domestic and similar general lighting purposes.

MS 883:2012 SELF-BALLASTED LAMPS FOR GENERAL LIGHTING PURPOSES - SAFETY REQUIREMENTS (11p) M

This Malawi standard specifies the safety and interchangeability requirements together with the test methods and conditions required to show compliance of tubular fluorencent and other gas-discharged lamps with integrated means for controlling starting and stable operation (self-ballasted lamps) intended for domestic and similar general lighting purpose.

MS 884:2012 SELF – BALLASTED FLUORESCENT LAMPS FOR GENERAL PURPOSES-PERFORMANCE REQUIREMENTS (8p) M

This Malawi Standard specifies the performance requirements together with the test methods and conditions required to show compliance of tubular fluorescent and other gas-discharged lamps with integrated means for controlling starting and stable operation (self-ballasted lamps) intended for domestic and similar general lighting purposes.

MS 885:2012 SELF - BALLASTED LIGHT EMITTING DIODE LAMPS FOR GENERAL LIGHTING PURPOSES – SAFETY SPECIFICATION (First edition) (17 p) V

This Malawi standard specifies the safety and interchangeability requirements, together with the test methods and conditions required to show compliance of LED lamps with integrated means for stable operation (self-ballasted LED lamps) , intended for domestic and similar general lighting purposes.

MS 886:2012 SELF – BALLASTED COMPACT FLUORESCENT LAMPS FOR GENERAL LIGHTING PURPOSES-SPECIFICATION (First Edition) (11p) V

This Malawi standard provides requirements for compact fluorescent lamps for domestic and general lighting purposes and applies exclusively to self –ballasted compact fluorescent lamps (CFLs) with or without any cover, and without any reflector element. These lamps have an integrated means for controlling starting and stable operation and are intended for general lighting purposes:

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MS 887:2012 SELF - BALLASTED LIGHT EMITTING DIODE LAMPS FOR GENERAL LIGHTING PURPOSES – METHODS FOR MEASURING THE PERFORMANCE (First Edition). (25p) V

This Malawi Standard specifies the test methods and conditions required for electronic self-ballasted, compact fluorescent lamps (CFLs), with integrated means for starting, controlling and stable operation.

MS 888:2012 JATROPHA STRAIGHT VEGETABLE OIL - REQUIREMENTS AND TEST METHODS (9 p) M

This Malawi standard specifies requirements and test methods for marketed and delivered straight vegetable oil extracted from jatropha carcus to be used at an agreed and approved percentage either as diesel or illuminating paraffin blend.

MS 889-1:2011 RECOMMENDATIONS FOR SMALL RENEWABLE ENERGY AND HYBRID SYSTEMS FOR RURAL ELECTRIFICATION

Part 1: General introduction to rural electrification (5p) V

This series of documents intends to provide to different players involved in rural electrification projects (such as project developers implementers, installers, etc) documents for the setting up of renewable energy and hybrid systems with AC voltage below 500 V, DC voltage below 50 V and power below 50 kVA.

MS 889-2:2011 RECOMMENDATION FOR SMALL RENEWABLE ENERGY AND HYBRID SYSTEMS FOR RURAL ELECTRIFICATION

Part 2: From requirements to a range of electrification systems (51p) V

The scope of this part of MS 889 series is to propose a methodological approach for the setting up and carrying out of socio-economic studies as part of the framework of decentralized rural electrification projects. It is addressed to project teams and particular to experts in charge of socio-economic studies in international projects.

MS 889-3:2011 RECOMMENDATION FOR SMALL RENEWABLE ENERGY AND HYBRID SYSTEMS FOR RURAL ELECTRIFICATION

Part 3: Protect development and management (37p) V

This part of MS 889 provides information on the responsibilities involved in the implementation of rural power systems. In Clause 5, this technical specification presents contractual relationships to be built between the different participants to the project. Throughout the project, responsibilities are to be clearly defined and contractual commitments controlled. Clause 6 provides relevant tests to be applied to small renewable energy and hybrid electrification systems. Clause 7 provides proposed quality assurance principles to be implemented. In Clause 8, requirements are proposed for recycling and protection of environment. In Annex A of this technical specification, further technical considerations for contractual liabilities are provided.

MS 889-4:2011 RECOMMENDATIONS FOR SMALL RENEWABLE ENERGY AND HYBRID SYSTEMS FOR RURAL ELECTRIFICATION

Part 4: Systems selection and design (56p) V

This part of MS 889 provides a method for describing the results to be achieved by the electrification system independently of the technical solutions that could be implemented.

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MS 889-5:2011 RECOMMENDATION FOR SMALL RENEWABLE ENERGY AND HYBRID SYSTEMS FOR RURAL ELECTRIFICATION (25p) V

Part 5: Protection against electrical hazards

Decentralized Rural Electrification Systems (DRES) are designed to supply electric power for sites which are not connected to a large interconnected system, or a national grid, in order to meet basic needs.

MS 889-6:2011 RECOMMENDATION FOR SMALL RENEWABLE ENERGY AND HYBRID SYSTEMS FOR RURAL ELECTRIFICATION

Part 6: Acceptance, operation, maintenance and replacement (First edition) (11p) V

This standard is intended to describe the various rules to be applied for acceptance, operation, maintenance and replacement (AOMR) of decentralized rural electrification systems (DRES) which are designed to supply electric.

MS 889-7:2011 RECOMMENDATION FOR SMALL RENEWABLE ENERGY AND HYBRID SYSTEMS FOR RURAL ELECTRIFICATION

Part 7: Generators (5p) V

Part 7: The purpose of this part of MS 889 is to specify the general requirements for generators (maximum power=100 k V A) in decentralized rural electrification systems.

MS 889-7-1:2012 RECOMMENDATIONS FOR SMALL RENEWABLE ENERGY AND HYBRID SYSTEMSS FOR RURAL ELECTRIFICATION

Part 7-1: Generators-Photovoltaic arrays (66p) V

This part of MS 889 specifies the general requirements for erection and operation of PV arrays in decentralizes rural electrification systems.

MS 889-8-1:2011 RECOMMENDATIONS FOR SMALL RENEWABLE ENERGY AND HYBRID SYSTEMS FOR RURAL ELECTRIFICATION

Part 8-1: Selection of batteries and battery management systems for stand-alone electrification systems - specific case of automotive flooded led-acid batteries available in developing countries (16 p) V

This specification proposes simple, cheap, comparative tests in order to discriminate easily, in a panel of flooded lead; acid batteries, the most acceptable model for PV individual Electrification Systems.

MS 889-9-2:2011 RECOMMENDATION FOR SMALL RENEWABLE ENERGY AND HYBRID SYSTEMS FOR RURAL ELECTRIFICATION

PART 9-2: Micro grids (42p) V

The purpose of this part of MS 889-9 is to specify the general requirements for the design and the implementation of micro grids used in decentralized rural electrification to ensure the safety of persons and property and their satisfactory operation according to the scheduled use.

MS 889-9-3:2011 RECOMMENDATIONS FOR SMALL RENEWABLE ENERGY AND HYBRID SYSTEMS FOR RURAL ELECTRIFICATION

Part 9-3: Integrated system - user Interface (7p) V

This part of IEC 62257 provides information on the responsibilities involved in the implementation of rural power systems. In Clause 5, this technical specification presents contractual relationships to be built between the different participants to a

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project. Throughout the project, responsibilities are to be clearly defined and contractual commitments controlled.

MS 889 - 9 - 4:2011 RECOMMENDATIONS FOR SMALL RENEWABLE ENERGY AND HYBRID SYSTEMS FOR RURAL ELECTRIFICATION

Part 9-4: Integrated systems – user installation (14 p) V

The purpose of this part of MS 889 is specify the general requirements for the design and the implementation of a user`s installation.

This part of MS 889-9 applies to single phase user`s electrical installations with maximum power of 500VA, in Decentralized Rural Electrification Systems (DRES)

MS 889-9-5:2011 RECOMMENDATIONS FOR SMALL RENEWABLE ENERGY AND HYBRID SYSTEMS FOR RURAL ELECTRIFICATION

Part 9-5: Integrated system-selected of portable PV lanterns for rural electrification projects (23p) V

This standard applies to portable solar lanterns (portable PV lantern). This specification is independent of the technology used to provide the light.

MS 889-9-6:2011 RECOMMENDATIONS FOR SMALL RENEWABLE ENERGY AND HYBRID SYSTEMS FOR RURAL ELECTRIFICATION

Part 9-6: Integrated systems-selection of photovoltaic individual electrification systems (PV-IEC) (26p) V

This purpose of this part of MS 889 is to propose simple selection procedure and cheap, comparative tests which can be performed in laboratories of developing countries, in order to identify the most suitable model of small Photovoltaic Individual Electrification Systems (PV-IES) up to 500 Wp for a particular rural electrification project from a number of products submitted for test.

MS 889-12-1:2011 RECOMMENDATIONS FOR SMALL RENEWABLE ENERGY AND HYBRID SYSTEMS FOR RURAL ELECTRIFICATION

Part 12-1: Selection of self-ballasted lamps (CFL) for rural electrification systems and recommendations for household lighting equipment (11 p) V

Decentralized Rural Electrification Systems (DRES) are designed to supply electric power to sites which are not connected to a large interconnected system, or a national grid.

MS 890:2013 SANITARY TOWELS – SPECIFICATION (First Edition) (17p) M

This Malawi Standard specifies the requirements and test methods for sanitary towels.

MS 891:2013 PAINTS AND VARNISHES – VISIUAL COMPARISON OF THE COLOUR OF PAINTS (8p) V

This Malawi Standard is one of a series of standards dealing with the sampling and testing of paints, varnishes and related products.

MS 892:2013 PAINTS AND VARNISHES –EXAMINATION AND PREPARATION OF TEST SAMPLES (4p) V

This Malawi Standard specifies both the procedure for preliminary examination of a single sample, as received for testing, and the procedure for preparing a test sample by blending and reduction of series of samples representative of a consignment or bulk of paint, varnishes or related product.

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MS 893:2013 PAINTS AND VARNISHES - NATURAL WEATHERING OF COATINGS-EXPOSURE AND ASSESSMENT (9p) V

This Malawi Standard specifies the conditions which need to be taken into consideration in the selection of the type of natural weathering and the natural weathering procedure to be used to determine the resistance of coatings or coating systems (direct weathering or weathering behind window glass)

MS 896:2021 GREEN TEA - DEFINITION AND BASIC REQUIREMENTS.(Second Edition) (3p) M

This Malawi standard specifies the parts of a named plant that are suitable for making green tea for consumption as a beverage and the chemical requirements for green tea that are used to indicate that tea from that source has been produced in accordance with good production practice.

MS 897-1:2013 DETERMINATION OF SUBSTANCES CHARACTERISTICS OF GREEN AND BLACK TEA

Part 1: Content of total polyphenol in tea – colorimetric methods using Folin–Ciocalteu reagent (First edition) (8p) M

This Malawi standard specifies a method for the determination of the total polyphenol content of tea and instant tea by a colorimetric assay using Folin-Ciocalteu phenol reagent. It is applicable to both green and black tea products.

MS 897-2:2013 DETERMINATION OF SUBSTANCES CHARACTERISTICS OF GREEN AND BLACK TEA

Part 2: Content of total polyphenol in tea –colorimetric methods using Folin-Ciocalteu reagent (19p) V

This Malawi Standard specifies high-performance liquid chromatographic (HPLC) methods for the determination of the total catechin of tea from the summation of the individual catechins. It is applicable to both leaf and instant green tea, and with precision limitations to black tea (see Annex A).

MS 899:2013 RESTRICTED INGREDIENTS IN COSMETICS - METHODS OF ANALYSIS (155p) M

These standard details methods of analysis and sampling for restricted ingredients in cosmetics products.

MS 912-1:2014 PLASTICS PIPING SYSTEMS FOR HOT AND COLD WATER INSTALLATIONS-POLYPROPYLENE (PP) M

Part 1: General (9p)

This part of MS 912 specifies the general aspects of polypropylene (PP) piping systems intended to be used for hot and cold water installations within buildings for the conveyance of water whether or not intended for human consumption (domestic systems) and for heating systems, under design pressures and temperatures according to the class of application (see **Table 1**).

MS 912-2:2014 PLASTICS PIPING SYSTEMS FOR HOT AND COLD WATER INSTALLATIONS-POLYPROPYLENE (PP) PART 2: PIPES (First Edition) (18p) M

This part of MS 912 specifies the characteristics of pipes made from polypropylene (PP) for piping systems intended to be used for hot and cold water installations within buildings for the conveyance of water whether or not intended for human consumption (domestic systems) and for heating systems under operating pressures and temperatures appropriate to the class of application (see Table 1of MS 912-1:2014).

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MS 912-3:2014 PLASTICS PIPING SYSTEMS FOR HOT AND COLD WATER INSTALLATIONS-POLYPROPYLENE (PP) PART 3: FITTINGS (First Edition) (14p) M

This part of MS 912 specifies the characteristics of pipes made from polypropylene (PP) for piping systems intended to be used for hot and cold water installations within buildings for the conveyance of water whether or not intended for human consumption (domestic systems) and for heating systems under operating pressures and temperatures appropriate to the class of application (see Table 1of MS 912-1:2014).

MS 912-5:2014 PLASTICS PIPING SYSTEMS FOR HOT AND COLD WATER INSTALLATIONS-POLYPROPYLENE (PP) PART 5: FITNESS FOR PURPOSE OF THE SYSTEM (First Edition) (10p) M

This part of MS 912 specifies the characteristics of pipes made from polypropylene (PP) for piping systems intended to be used for hot and cold water installations within buildings for the conveyance of water whether or not intended for human consumption (domestic systems) and for heating systems under operating pressures and temperatures appropriate to the class of application (see Table 1of MS 912-1:2014).

MS 912-7:2014 PLASTICS PIPING SYSTEMS FOR HOT AND COLD WATER INSTALLATIONS-POLYPROPYLENE (PP)

Part 7: Guidance for the assessment of conformity (12 p)V

This Malawi Standard gives guidance for the assessment of conformity to be included in the manufacture`s quality plan as part of his quality system.

MS 913:2013 HYDRATED LIME FOR USE IN SUGAR PROCESSING-SPECIFICATION (8p) M

This standard prescribes the requirements and the test methods of sampling and testing for hydrated limes for use in sugar industry.

MS 914:2014 TIMBER STRUCTURES-GLUED LIMITED TIMBER-TEST METHODS FOR DETERMINATION OF PHYSICAL AND MECHANICAL PROPERTIES (26p) M

This Malawi standard specifies test methods for determining the following characteristic values of glued laminated timber: modulus of elasticity in bending; shear modulus; modulus of elasticity in tension parallel to the grain; compression strength parallel to the grain ; modulus of elasticity in tension perpendicular to the grain; tension strength perpendicular to the grain; modulus of elasticity in compression perpendicular to the grain; compression strength perpendicular to the grain and shear strength.

MS 917:2013 RAMMED EARTH STRUCTURES - CODE OF PRACTICE (First Edition) 39 p M

This code of practice gives guidance on the design, construction and test methods for rammed earth structures.

MS 918:2013 SPICES AND CONDIMENTS – DETERMINATION OF MOISTURE CONTENT ENTRAINMENT METHOD (5p) M

This Malawi standard specifies an entrainment method for the determination of the moisture content of spices and condiments.

MS 919:2013 SPICES AND CONDIMENTS - DETERMINATION OF ACID-INSOLUBLE ASH (4p) M

This Malawi Standard specifies a method for the determination of acid-insoluble ash in spices and condiments.

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MS 920:2013 SPICES, CONDIMENTS AND HERBS - DETERMINATION OF VOLATILE OIL CONTENT CHYDRODISTILLATION METHOD (9p) M

This Malawi Standard specifies a method for the determination of the volatile oil content of spices, condiments and herbs.

MS 921:2014 WOOD-DETERMINATION OF VOLUMETRIC SWELLING (5p) M

This Malawi Standard specifies two methods for the determination of volumetric swelling of wood.

MS 922:2014 SPICES AND CONDIMENTS – DETERMINATION PF NON-VOLATILE ETHER EXTRACT (First Edition) 3p M

This Malawi standard specifies a method for the determination of the non-volatile ether extract in spices and condiments

MS 923:2014 PEPPER AND PEPPER OLEORESINS - DETERMINATION OF PIPERINE CONTENT, METHODS USING HIGH PERFORMANCE LIQUID CHROMATOGRAPHY (HPLC) (6p) V

This Malawi Standard specifies a method for the determination, by high-performance liquid chromatography, of the pipeline content of peppers (Piper nigrum Linnaeus) whole or powdered, as well as their extracts (oleoresins).

MS 924-1:2014 CHILLIES AND CHILLI OLEORESINS-DETERMINATION OF TOTAL CAPSAICINOID CONTENT PART1: METHOD USING HIGH PERFORMANCE LIQUID CHROMATOGRAPHY (HPLC) (First Edition) (6 p) M

This Malawi standard specifies a method for the determination, by High Performance Liquid Chromatography (HPLC), of the total capsaicinoid content of whole or powdered chillies (usually Capsicum frutesscens L) and the extracts(oleoresins).This content is calculated from the total of capsaicin, nordihydrocapsaicin and dihydrocapsaicin, expressed as nonyl acid vanilylamide, which is the chosen reference substance.

MS 924-2:2014 CHILLIES AND CHILL OLEORESINS - DETERMINATION OF TOTAL CAPSAICINOID CONTENT

Part 2: method using high performance liquid chromatography (HPLC) (6p) V

This Malawi Standard specifies a method for the determination, by high-performance liquid chromatography (HPLC), of the total capsaicinoid content of whole or powdered chillies (usually capsicum frutescens l) and their extracts (oleoresins). This content is calculated from the total of capsaicin, nordihydrocapsaicin and dihydrocapsaicin, expressed as nonyl acid vanilylamide, which is the chosen reference substance.

MS 925:2014 GINGER AND GINGER OLEORESINS-DETERMINATION OF THE MAIN PUNGENT COMPONETS (GINGEROLS AND SHOGAOLS) METHODS USING HIGH PERFORMANCE LIQUID CHROMATOGRAPHY (HPLC) (11p) M

This Malawi Standard describes a method for the determination of gingerols [6] – G, [8]- G and [10] – G and the corresponding shogaols [6] – S, [8]- S and [10] – S in dried ginger or in oleoresins of ginger, by High-Performance Liquid Chromatography (HPLC) in the reverse phase.

MS 926-1:2014 PALLETS FOR MATERIALS HANDLING –FLAT PALLETS

Part 1: Test methods (31p) M

This part of MS 926 specifies the test methods available for evaluating new flat pallets for materials handling.

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MS 926-2:2014 PALLETS FOR MATERIALS HANDLING –FLAT PALLETS

Part 2: Performance requirements and selection of tests (12p) M

This part of MS 962 specifies the performance requirements to establish nominal loads for flat pallets. It also specifies the tests requirements for new flat pallets in various handling environments and performance requirements for the tests with payloads. It is not intended to apply to pallets with a fixed superstructure or a rigid, self-supporting container that can be mechanically attached to the pallets and which contributes to the strength of the pallet.

MS 926-3:2014 PALLETS FOR MATERIALS HANDLING –FLAT PALLETS

Part 3: Maximum working loads (9p) M

This part of MS 926 specifies the determination of maximum working load for new flat pallets with known payloads in different handling environments

MS 927:2015 WOOD-SAMPLING METHODS AND GENERAL REQUIREMENTS FOR PHYSICAL AND MECHANICAL TESTS (8p) M

This standard specifies methods for the extensive and limited sampling of wood, conditioning and preparation of test pieces. It also specifies the general requirements for physical and mechanical testing of small clear wood specimens. The sampling guidance provided in this standard can be applied for timber taken from trees, logs or pieces of ungraded/graded/pre-sorted sawn timber for non-structural applications, such as furniture, windows, doors, etc.

MS 928:2014 WOOD-DETERMINATION OF VOLUMETRIC SHRINKAGES (4p) M

This standard specifies two methods for the determination of the volumetric shrinkages of wood.

MS 929:2014 BROADLEAVED SAWN TIMBER - NOMINAL SIZES (COMESA HARMINIZED) (2p) M

This standard specifies nominal sizes of unplanned, square-edged and unedged, broadleaved sawn timber.

MS 930:2014 SAWN TIMBER-TEST METHODS - DETERMINATION OF ULTIMATE STRENGTH IN SHEARING PARALLEL TO GRAIN (3p) M

This standard specifies a method of testing sawn timber of coniferous and broadleaved species in shearing parallel to the grain to determine the ultimate strength.

MS 934:2016 GUIDELINES FOR THE DESIGN OF CONTROL MEASURES FOR THE STREET-VENDED FOODS IN AFRICA (First Edition) (20p)

This guidelines specify the general hygienic requirements and practices to been recommended for inclusion in codes of practice for the preparation and sale of street foods.

MS 935:2016 PRINCIPLES AND GUIDELINES FOR THE ESTABLISHMENT AND APPLICATION OF MICROBIOLOGICAL CTITERIA RELATED TO FOODS (First Edition) (8p) M

These principles and guidelines are intended to provide a framework for Malawi government and food business operators on the establishment and application of microbiological criteria that can be applied for food safety and other aspects of food hygiene. Microbiological criteria established for the monitoring of the food processing environment are not in the scope of this document. Microbiological criteria can be applied, but are not limited.

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MS 936:2016 ADVISORY LISTS OF NUTRIENTS COMPOUNDS FOR USE IN FOODS FOR SPECIAL DIETARY USES INTENDED FOR INFANTS AND YOUNG CHILDREN (First Edition) (21p) M

This standard provides a list of nutrients compounds, as outlined in table 1 to table 4, which may be used for nutritional purposes in foods for special dietary users intended for infants and young children in accordance with the criteria and conditions of use identified below and other criteria for their use stipulated in the respective standards. In addition, the sources from which the nutrients compound is produced may exclude the use of specific substances where religious or specific dietary restrictions apply. As noted in the respective standards, their use may either be essential or optional.

MS 937:2014 DEGERMED MAIZE (CORN) MEAL AND MAIZE (CORN) GROTS - SPECIFICATION (4p) M

This Malawi Standard applies to degermed maize (corn) meal and to degermed maize (corn) grits for direct human consumption milled from kernels of common maize, Zea mays L.

MS 938:2014 SORGHUM FLOUR - SPECIFICATION (First edition) (4 p) M

This Malawi standard applies to sorghum flour designed for direct human consumption as described in clause 3.

MS 942:2020 CANNED MANGOES – SPECIFICATION (First edition) (7p) M

This Malawi standard specifies the requirements and methods of sampling and test for canned mangoes

MS 944:2014 PRINCIPLES FOR FOOD IMPORT AND EXPORT INSPECTION AND CERTIFICATION (First Edition) (3p) M

Official and officially recognised inspection and certification systems are fundamentally important and very widely used means of food control; the following principles apply to such systems.

MS 952:2016 LIVE WORKING – LADDERS OF INSULATING MATERIAL (First Edition) (27p) M

This Malawi standard is applicable to fully insulating spiced or hook ladders with extension or having a combination of insulating and conducive sections and use for live working on a.a or d.c electrical installations at 1000 V and above for a.c and 1500 V and above for d.c

MS 953-1:2016 COMPOSITE STRING INSULATORS UNITS FOR OVERHEAD LINES WITH A NOMINAL VOLTAGE GREATER THAN 100 V (First Edition) (18p)

This part of MS 953 is applicable to composite string insulator units for a.c overhead lines with nominal voltage greater than 100V and a frequency not greater than 100Hz.

MS 953-2:2016 COMPOSITE STRING INSULATOR UNITS FOR OVERHEAD LINES WITH A NOMINAL VOLTAGE GREATER THAN 100 V PART 2: DIMENSIONAL AND ELECTRICAL CHARACTERISTICS (First Edition) (5p) M

This part of MS 953 is applicable to composite string insulator units with a specified mechanical load (SML) of 40 kN to 210 kN for a.c . Overhead lines with a nominal voltage greater than 1000v and frequency not greater than100hz.

MS 955:2016 INSULATORS FOR OVERHEAD LINES – COMPOSITE LINE POST INSULATORS FOR A.C WITH NORMINAL VOLTAGE GREATER THAN 1000 V (25p) V

This standard applies to composite line post insulators of a loadbearing, cylindrical, insulating solid core made up of fibres- usually glass- in a rein-based matrix , a housing (outside the insulating core) made of elastomer material (.g. silicone or ethylene – propylene) and permanently attached to the insulating core

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MS 957-10:2016 POWER TRANSFORMERS PART 10: DETERMINATION OF SOUND LEVELS (First Edition) (27p) V

This part of MS 957 defines sod pressure and sound intensity measurement methods by which sound power levels of transformers reactors and their associated cooling auxiliaries may be determined.

MS 963-1:2016 CONVERTOR TRANSFORMERS PART1: TRANSFORMERS FOR INDUSTRIAL APPLICATION (First Edition) (21p) V

This standard deals with the specification, design and testing of power transformers and reactors which are intended for integration within semiconductors convertor plants: it is not applicable to transformers designed for industrial or public distribution of a.c power in general.

MS 963-2:2016 CONVERTOR TRANSFORMERS PART 2: TRANSFORMERS FOR HVDC APPLICATION (First Edition) (15p) V

This part of MS 963 applies to oil-immersed three-phase and single –phase convertor transformers for use in HVDC power transmission. It applies to transformers having two, three or multiple windings.

MS 966: 2016 TEXTILE FIBRES - MORPHOLOGY OF FIBRES AND YARNS – VOCABULARY (First Edition) (3p) V

This standard defines the principal terms used to describe the various forms into which textiles fibres can be assembled, up to and including cable yarns.

MS 968:2016 TEXTILES – COTTON FIBRES-EVALUATION OF MATURIY BY THE AIR FLOW METHOD (First Edition) (6p) M

This standard specifies a method for the evaluation of the maturity of loose randomized cotton fibres by measuring the resistance to air flow of a plug of cotton under two prescribed conditions. The method is applicable to cotton taken at random from bales. Laps and slivers or other sources of lint cotton may be tested, however results may differ if fibres are taken from bales.

MS 969:2016 WOOL – MEASUREMENT OF THE LENGTH OF FIBRES PROCESSED ON THE WORSTED SYSTEMS, USING A FIBRE DIAGRAM MACHINE (First Edition) (6 p) M

This standard specifies a method for measurement of the length of wool fibres using a fibre diagram machine. The method is applicable to combined slivers processed on the worsted system. For slivers containing two or more fibres of different dielectric constants (for example wool and Polyesters) and length distributions, the results may not be an accurate reflection of the actual fibre-length distribution of the top.

MS 974:2014 TEXTILES FIBRES-DETERMINATION OF BREAKING FORCE AND ELONGATION AT BREAK OF INDIVIDUAL FIBRES (First Edition) (7 p) M

This Malawi standard specifies the methods and conditions of test for the determination of breaking force and elongation at break of individual fibres in the conditioned or wet state.

MS 975:2014 TEXTILE FIBRES-DETERMINATION OF LINEAR DENSITY-GRAVIMETRIC METHOD AND VIBROSCOPE METHOD (First Edition) (8 p) M

This Malawi standard specifies a gravimetric method and a vibroscope method for the determination of the linear density of textile fibres applicable respectively.

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MS 979:2014 TEXTILES - METHODS FOR THE REMOVAL OF NON-FIBROUS MATTER PRIOR TO QUANTITATIVE ANALYSIS OF FIBRE MIXTURE (7 p) M

This technical report describes procedures for the removal of certain commonly found types of non-fibrous substances from fibres. Fibres to which the procedures are applicable and those to which they are not applicable are listed in the table, in relation to the non-fibrous substances to be removed. The names of these fibres are defined in ISO 2076.Identification of non-fibrous matter and of the fibres present is not covered by this technical report.

MS 982:2016 SOAPS AND DETERGENTS - DETERMINATION OF CHELATING AGENT CONTENT-TITRIMETRIC METHOD (3p) M

This standard specifies a method of analysis for the determination of the chelating agent content of detergent compositions and soaps containing not more than 2%(m/m) of chelating agent.

MS 984:2016 SURFACE ACTIVE AGENTS AND DETERGENTS – DETERMINATION OF WATER CONTENT – KARL FISHER METHODS (First Edition) (13p) V

This standard specifies two titration methods (volumetric and coulometric) using Karl Fischer reagent for the determination of the water content of surface active agents and detergents.

MS 986:2014 PETROLEUM PRODUCTS-FUELS (CLASS F) - GAS TURBINE FUELS FOR INDUSTRIAL AND MARINE APPLICATIONS-SPECIFICATION (16p)

This standard specifies the requirements for petroleum fuels for gas turbines (see ISO 3977) use in public utility, industrial, and marine applications. It does not cover requirements for gas turbine fuels for aviation use. This International Standard is intended for the guidance of users such as turbine manufacturers, suppliers, and purchasers of gas turbine fuels

MS 988:2014 STANDARD GUIDE FOR PERFORMANCE EVALUATION OF HYDRAULIC FLUIDS FOR PISTON PUMPS (35p) M

This guide covers the establishment of test protocols and methodologies for determining the suitability of fluids for use in fluid power systems that incorporate axial or radial piston pumps. The suitability of all fluid types to meet specific levels of performance in piston pumps is addressed. The fluids include, but are not limited to formulations based on mineral, synthetic or vegetable oil based stocks. The finished fluids may be in the form or straight oils or invert emulsions.

MS 989:2014 MINERAL LUBRICATING OIL USED IN STEAM OR GAS TURBINES - SPECIFICATION (9p) M

This specification covers mineral oils used in steam and gas turbine lubrication systems where the performance requirements demand highly refined mineral base oil compounded with rust and oxidation inhibitors plus selected additives as needed to control foam, wear, demulsibility, and so forth. This standard may also be applied to combine cycle turbine systems, where a single lubricant circulating systems is used to supply oil to a stream and gas turbine configured in tandem either on a single or separate shaft for enhancing energy efficiency.

MS 990:2014 LUBRICANTS, INDUSTRIAL OILS AND RELATED PRODUCTS (CLASS L) – FAMILY H (HYDRAULIC SYSTEMS) – SPECIFICATIONS FOR HYDRAULIC (10p) M

This Standard specifies the minimum requirements of unused fire-resistant and less-flammable hydraulic fluids for hydrostatic and hydrodynamic systems in general industrial applications. It is not intended for use in aerospace or power-generation application, where different requirements apply. It provides guidance for suppliers and end users of these less hazardous fluids and to the manufacturers of hydraulic equipment in which they are used.

MS 991:2014 LUBRICANTS, INDUSTRIAL OILS AND RELATED PRODUCTS (CLASS L) – FAMILY X (GREASES) – SPECIFICATION (5p) M

This standard specifies the requirements of greases used for lubrication of equipment, components of machines, vehicles, etc. The purpose of this Standard is to provide guidance to suppliers and end users of greases and to equipment manufacturers of grease-lubricated equipment.

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MS 992-1:2014 LUBRICANTS, INDUSTRIAL OILS AND RELATED PRODUCTS (CLASS L)- FAMILY C (GEARS)- PART 1: SPECIFICATIONS FOR LUBRICANTS FOR ENCLOSED GEAR SYSTEMS (7P) M

This part of MS 992 establishes the specifications relative to family C (gears) for lubricants, industrial oils and related products of Class L (see MS 994-5) This part of MS 992 deals with lubricants for industrial gears in enclosed systems. Lubricants for motor vehicle gears and open industrial gears are not covered.

MS 993:2014 LUBRICANTS, INDUSTRIAL OILS AND RELATED PRODUCTS (CLASS L) – MACHINE - TOOL LUBRICANTS - CATEGORIES AND SPECIFICATIONS (10p) M

This international standard provides the manufacturers and users of machine tools with criteria for the choice among the various categories of lubricants and gives specifications for these Lubricants. This International standard facilitates the application of ISO 5169 relating to the presentation of lubrication instructions for machine tools.

MS 994-1:2014 LUBRICANTS, INDUSTRIAL OILS AND RELATED PRODUCTS (CLASS L) –CLASSIFICATION - PART1: FARMILY A (TOTAL LOSS SYSTEM) (4P) M

This part of MS 994 establishes the detailed classification of family A (Total loss systems) which belongs to class L (Lubricants, industrial oils and related products)

MS 1000:2014 CERTAIN PULSES - SPECIFICATION (3p) M

This Malawi standard applies to the whole, shelled or split pulses defined below which are intended for direct human consumption. The standard does not apply to pulses intended for factor grading and packaging, industrial processing, or to those pulses intended for use in feeding of animals. It does not apply to fragmented pulses when sold as such, or to other legumes for which separates standards may be elaborated.

MS 1003:2014 PAPAYAS - SPECIFICATION (First Edition) 5 p M

This Malawi standard applies to fruits of commercial varieties of papayas grown from Carica papaya L, of the Caricaceae family, to be supplied fresh to the consumer; after preparation and packaging. Papayas for industrial processing are excluded.

MS 1004:2014 MANGOES - SPECIFICATION (First Edition) 5 p M

This Malawi standard applies to commercial varieties of mangoes grown from Mangifera indica L, of the Anacardiaceace family, to be supplied fresh to the consumer, after preparation and packaging. Mangoes for industrial processing are excluded

MS 1005:2014 DATES - SPECIFICATION (First Edition) 5p M

This Malawi Standard applies to commercially prepare whole dates in pitted or un-pitted styles packed ready for direct consumption. It does not apply to other forms such as pieces or mashed dates or dates intended for industrial purposes**.**

MS 1006:2014 MILKFAT PRODUCTS-SPECIFICATION (First Edition) 4p M

This Malawi standard applies to anhydrous milkfat, milkfat, anhydrous butteroil, butteroil and ghee, which are intended for further processing or culinary use, in conformity with the description in section 3 of this standard.

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MS 1012-1:2020 PAINTS AND VANISHES – EVALUATION OF DEGRADATION OF COATINGS – DESIGNATION OF QUALITY AND SIZE OF DEFECTS, AND OF INTENSITY OF UNIFORM CHANGES IN APPEARANCES

PART 1: GENERAL INTRODUCTION AND DESIGNATION SYSTEMS (First Edition) (3p)

This Malawi standard defines a system for designating the quality and size of defects and the intensity of changes in appearance of coatings and outlines the general principles of the sytems used throughout MS 1012. This system is intended to be used, in particular, for defects caused by ageing and weathering, and for uniform changes, for example yellowing**.**

MS 1012-2:2020 PAINTS AND VANISHES – EVALUATION OF DEGRADATION OF COATINGS – DESIGNATION OF QUALITY AND SIZE OF DEFECTS, AND OF INTENSITY OF UNIFORM CHANGES IN APPEARANCES

Part 2: Assessment of degree of blistering (First Edition) (12p) M

This Malawi standard specifies a method for assessing the degree of blistering of coatings by comparison with pictorial standards.

MS 1012-3:2020 PAINTS AND VANISHES – EVALUATION OF DEGRADATION OF COATINGS – DESIGNATION OF QUALITY AND SIZE OF DEFECTS, AND OF INTENSITY OF UNIFORM CHANGES IN APPEARANCES

Part 3: Assessment of degree of rusting (First Edition)(9p)M

This Malawi standard specifies a method for assessing the degree of rusting of coatings by comparison with pictorial standards.

MS 1012-5:2020 PAINTS AND VANISHES – EVALUATION OF DEGRADATION OF COATINGS – DESIGNATION OF QUALITY AND SIZE OF DEFECTS, AND OF INTENSITY OF UNIFORM CHANGES IN APPEARANCES

Part 5: Assessment of degree of flacking (First Edition) (4p) M

This Malawi standard specifies a method for assessing the degree of flacking of coatings by comparison with pictorial standards.

MS 1012-6:2020 PAINTS AND VANISHES – EVALUATION OF DEGRADATION OF COATINGS – DESIGNATION OF QUALITY AND SIZE OF DEFECTS, AND OF INTENSITY OF UNIFORM CHANGES IN APPEARANCES

Part 6: Assessment of degree of chalking by tape method (First Edition) (5p) M

This Malawi standard provides pictorial reference standards for designating the degree of chalking of paint coatings. It also describes a method by which the degree of chalking is rated. In using this method, it is essential that care be taken to distinguish between true degradation products and adhering dirt, particularly when chalking is slight.

MS 1013-1:2019 PAINTS AND VARNISHES-DETERMINATION OF THE PERCENTAGE VOLUME OF NON-VOLATILE MATTER

Part 1: Method using a coated test panel to determine dry film density by the Archimedes principle (First Edition) (10p) M

This Malawi standard describes a procedure for determining the non-volatile matter by volume, NVv, of coating materials and related products by measuring the density of a dried coating for any specified temperature range and period of drying or curing. This method determines the non-volatile matter immediately after application.

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MS 1026-1 PAINTS AND VANISHES – METHODS OF EXPOSURE TO LABORATORY LIGHT SOURCES (First Edition) (21p) M

Part 1: General guidance

This Malawi standard provides information and general guidance relevant to the selection and operation of the methods of exposure described in detail in subsequent parts. It also describes general performance requirements for devices used for exposing paints and varnishes to laboratory light sources. Information about such performance requirements is provided for producers of artificial accelerated weathering or artificial accelerated irradiation devices.

MS 1026-2:2019 PAINTS AND VARNISHES- METHODS OF EXPOSURE TO LABORATORY LIGHT SOURCES

Part 2: Xenon-arc lamps (First Edition) (14p) M

This Malawi standard specifies methods for exposing specimens to xenon-arc light in the presence of moisture to reproduce the weathering affects that occur when materials are exposed in actual end-use environments to daylight filtered through window glass.

MS 1050:2022 BUILDING CONSTRUCTION - ACCESSIBILITY AND SUITABILITY OF THE BUILT ENVIRONMENT (First Edition) 158p) M

Specifies a range of requirements and recommendations for many of the elements of construction, assemblies, components and fittings which comprise the built environment. These requirements relate to the constructional aspects of access to buildings, to circulation within buildings, to egress from buildings in the normal course of events and evacuation in the event of an emergency. An informative annex is also included which deals with aspects of accessibility management in buildings**.**

MS 1062-2:2022 METHODS OF TESTING CEMENT

Part 2: Chemical analysis of cement (First Edition) (64p) M

Specifies the methods for chemical analysis of cement. It describes the reference methods and, in certain cases, an alternative method which can be considered to be equivalent.

MS 1062-5:2021 METHODS OF TESTING CEMENT (First Edition) (8 p) M

Part 5: Pozzolanicity test for pozzolanic Cement

This Malawi Standard specifies the method of measuring the pozzolanicity of pozzolanic cements conforming to MS 29. This standard does not apply to pozzolana cements or to pozzolanas.

MS 1068:2014 SPICES AND CONDIMENTS –BOTANICAL NOMENCLATURE (15p) V

This Malawi Standard gives a non-exhaustive list of botanical names and common names in English of plants or parts of plants used as spices or condiments.

MS 1075:2016 STAINLESS STEEL TUBES - DIMENSIONS, TOLERANCES AND CONVENTIONAL MASSES PER UNIT LENGTH (7p) M

This Malawi standard specifies the diameters, thicknesses, tolerances and conventional masses per unit length of stainless steel tubes**.**

MS 1076:2016 HOT DIP GALVANIZED COATINGS ON FABRICATED IRON AND STEEL ARTICLES – SPECIFICATIONS AND TEST METHODS (First Edition) (15p) M

This Malawi standard specifies the general properties of coatings and test methods for coatings applied by dipping fabricated iron and steel articles (including certain castings) in a zinc melt (containing not more than 2% of other metals).

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MS 1084:2023 SOLID ORGANIC FERTILIZER – SPECIFICATION (First Edition) (13p) M

Specifies requirements and methods of sampling and test for organic fertilizer.

MS 1085-1:2014 WOOD – METHODS OF PHYSICAL AND MECHANICAL TESTING – VOCABULARY

Part1: General concepts and macrostructure (First Edition) (4p) M

This standard gives terms and definitions relating to general concepts and wood macrostructure.

MS 1087:2014 PALLETS FOR MATERIALS HANDLING - VOCABULARY (71p) M

This international standard defines terms relating to pallets for unit load methods of materials handling.

MS 1088:2014 MATERIALS HANDLING- REPAIR OF FLAT WOODEN PALLETS (17p) M

This Standard specifies the maximum defects and damage allowed a flat wooden pallet shall be repaired, and defines the minimum repair criteria that shall be used.

MS 1089:2014 WOOD –DETERMINATION OF ULTIMATE STRENGTH IN STATIC BENDING (3p) M

This Malawi standard specifies a method for the determining the ultimate strength of wood in basic bending.

MS 1090:2014 WOOD –DETERMINATION OF MODULUS OF ELASTICITY IN STATIC BENDING (4p) M

This Malawi standard specifies a method for the determining the modulus of elasticity of wood in static bending by measuring the deflection in the net bending area.

MS 1092:2014 SAWN TIMBER OF BROADLEAVED SPECIES DEFECTS-CLASSIFICATION (First Edition) (3p) M

This Malawi standard specifies the international classification of defects of sawn timber of broadleaved species grown in temperate zone of the globe. It covers sawn timber, and sawn timber surfaced to size or planed but without profiling.

MS 1093:2015 SAWN TIMBER OF BROADLEAVED SPECIES DEFECTS – TERMS AND DEFINITIONS (First Edition) (27p) M

This Malawi standard establishes international terms and definitions for defects of sawn timber of broadleaved species, classified in MS 1092, Sawn timber species - Defects-classification.

MS 1094:2015 BROADLEAVED SAWN TIMBER-SIZES-METHODS OF MEASUREMENTS (1p) M

This Malawi standard specifies the methods of measurement of the length, width, thickness and volume of broadleaved sawn timber.

MS 1099:2016 COLD – REDUCED STEEL SHEET OF HIGHER YIELD STRENGTH WITH IMPROVED FORMABILITY (First Edition) (6p) M

This Malawi standard applies to all grades of cold-rolled steel sheet of higher yield strength with improved formability. The steel is made according to fine-grain practice and has a suitable chemical composition, including microalloying elements, to provide formability. The product is intended for the fabrication of parts requiring better formability. It is generally used in the delivered condition.

MS 1100:2016 STEEL WIRE ROPES – VOCABULARY, DESIGNATION AND CLASSIFICATION (First Edition) (47p) M

This Malawi standard defines terms, and specifies a designation system and classification system, for steel wire ropes.

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MS 1104:2016 STRUCTURAL STEELS WITH IMPROVED ATMOSPHERIC CORROSION RESISTANCE (First Edition) (14p) (M)

This Malawi standard specifies the chemical mechanical characteristics, methods of manufacture, the acceptance conditions and the marking of structural steel products possessing improved atmospheric corrosion.

MS 1105: 2016 COLD-REDUCED STEEL SHEET OF HIGH TENSILE STRENGTH AND LOW YIELD POINT WITH IMPROVED FORMABILITY-SPECIFICATION (First Edition) (11p) (M)

This Malawi standard applies to cold-reduced steel sheet of two types that are commercially available in the world. Type 1 represents steels that are produced to mechanical properties. Bake hardening steels are included in both types.

MS 1106:2016 FASTENERS – HOT DIP GALVANIZED COATINGS - COATINGS – SPECIFICATION (First Edition) (18p) M

This Malawi Standard specifies materials , process, dimensional and some performance requirements for hot dip spun galvanized coatings applied to coarse threaded steel fasteners from M8 up to and including MS 64 and for property classes up to and including 10.9 for bolts, screws and studs and 12 for nuts. It is not recommended to hot dip galvanize threaded fasteners in diameters smaller than M8 and/or with pitches below 1.25mm

MS 1107:2016 HOT-ROLLED AND COLD-REDUCED ELECTROLYTIC ZINC-COATED CARBON STEEL SHEET OF COMMERCIAL AND DRAWING QUALITIES (First Edition) (16p) (M)

This Malawi standard specifies the characteristics of carbon steel sheet of commercial and drawing qualities in cut length or coil form, zinc coated by electrolytic disposition. Electrolytic zinc-coated sheet is intended for the manufacture of formed or of miscellaneous parts, and can be supplied chemically treated to render it more suitable for painting.

MS 1108:2016 STEEL PRODUCTS- VOCABULARY (First Edition) (29p) V

This Malawi standard defines terms for steel products according to their stage of manufacture shape and dimensions, and appearance.

MS 1110:2014 DRIED APRICOTS - SPECIFICATION (First Edition) 4p M

This Malawi standard applies to dried fruits of *Armeniaca vulgaria* Lam. (*Prunus armeniaca* L.) which have been suitably treated or processed and which are offered for direct consumption. It also covers dried apricots which are packed in bulk containers and are intended for repacking into consumer size containers or for direct sale to consumers.

MS 1111:2014 BABY CORN - SPECIFICATION (First Edition) 4p M

This Malawi standard applies to cobs, without the silk and anthers, of commercial varieties of baby corn (corn inflorescence) grown from *Zea mays* L, of the Gramineae family, separated from silk, husk and anthers, to be supplied fresh to the consumer, after preparation and packaging. Baby corn for industrial processing is excluded.

MS 1112:2015 CODE OF HYGIENIC PRACTICE FOR FRESH FRUITS AND VEGETABLES (First Edition) (55p) M

This code of practice covers general hygienic practices for the primary production and packing of fresh fruits and vegetables cultivated for human consumption in order to produce a safe and wholesome product: particularly for those intended to be consumed raw. Specifically, this code is applicable to fresh fruits and vegetables grown in the field. (with or without cover) or in protected facilities (hydroponic systems, greenhouses). It concentrates on microbial hazards and addresses physical and chemical hazards only in so far as these related to Good Agricultural Practices (GAPs) and Good Manufacturing Practices.

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MS 1113:2017 CODE OF HYGIENIC PRACTICE FOR MILK AND MILK PRODUCTS (First Edition) (**25 p)**

This code applies to the production, processing and handling of milk and milk products as defined in MS 744.Where milk products are referred to in the code, it is understood that this term also includes composite milk products. The scope of this code does not extend to the production of raw drinking milk.

MS 1870:2023 COMPOST – SPECIFICATION (First Edition) (13p) M

Specifies physical, chemical, biological. And labelling requirements, including methods of sampling and test for compost intended for use in agriculture

MS 1871:2023 FOLIAR FERTILIZER (INORGANIC) – SPECIFICATION (First Edition) (4p) M

Specifies the requirements, and the method of sampling and test for inorganic foliar fertilizers

MS 1114:2016 DRESSED POULTRY- SPECIFICATION (First Edition) (36) M

This Malawi standard specifies quality requirements and methods of test for dressed poultry. It applies to ready to cook poultry, including chickens, ducks, geese, turkeys, pigeons, guinea fowl or any other domesticated bird, for commercial purposes.

MS 1125:2018 CONCRETE PAVING BLOCKS – SPECIFICATION (First Edition) (12p) M

This Malawi Standard covers blocs made from concrete, which are used for the construction of paved surfaces.

MS 1236:2022 TEXTURED SOYA PROTEIN PRODUCTS - SPECIFICATION (Second Edition) (5p) M

This Malawi standard specifies requirements and methods of sampling and test for textured soy protein products intended for human consumption**.**

MS 1240:2016 SODIUM BICARBONATE – SPECIFICATION (First Edition) (32p) M

Prescribes the requirements and the methods of sampling and test for sodium bicarbonate.

MS 1242:2016 CODE OF PRACTICE FOR PACKAGING AND TRANSPORTATION OF TROPICAL FRESH FRUITS AND VEGETABLES (First Edition) (9p) M

This code recommends proper packaging and transport of fresh fruit and vegetables in order to maintain produce quality during transportation and marketing.

MS 1243:2016 MEAT AND MEAT PRODUCTS - DETERMINATION OF TOTAL FAT CONTENT (REFERENCE METHODS) (3p) M

This Malawi standard specifies a reference method for the determination of the total fat content of meat and meat products.

MS 1244:2016 CANNED SHRIMPS OR PRAWNS - SPECIFICATION (First Edition) (6p) M

This Malawi standard applies to canned shrimps or canned prawns. It does not apply to specialty products where shrimp constitutes less than 50% m/m of the contents

MS 1245:2016 CANNED TUNA AND BONITO - SPECIFICATION (First Edition) (7 p) M

This Malawi standard applies to canned tuna and bonito. It does not apply to speciality products where the fish content constitutes less than 50% m/m of the contents

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MS 1246:2016 QUICK FROZEN BLOCKS OF FISH FILLET, MINCED FISH FLESH AND MIXTURES OF FILLETS AND MINCED FISH FLESH-SPECIFICATION (First Edition) (9p) M

This Malawi standard applies to quick frozen blocks of cohering fish flesh prepared from fillets (including pieces of fillets) or minced fish flesh or a mixture of fillets and minced fish flesh, which are intended for further processing.

MS 1247:2016 BAKERY PRODUCTS - METHODS OF SAMPLING (8p) M

This Malawi standard prescribes the methods of sampling and criteria for ascertaining the conformity of a lot of bakery products to the relevant product specifications, such as, biscuits, breads and cakes. It also includes the recommended provisions for the guidance of manufacturers.

MS 1248:2016 TABLE OLIVES – SPECIFICATION (First Edition)(16p) M

This Malawi standard applies to the fruit of the cultivated olive tree (*Olea europaea* L), as defined in the Section 3, which has been suitably treated or processed , and which is offered for direct consumption as table olives, including for catering purposes or olives packed in bulk containers which are intended for repacking into consumer size containers. It does not apply to the product when indicated as being intended for further processing.

MS 1249:2016 CANNED SARDINE AND SARDINE TYPE PRODUCTS - SPECIFICATION (6p) M

This Malawi standard applies to canned sardines and sardine-type products packed in water or oil other suitable packing medium. It does not apply to speciality products where fish content constitute less than 50 % m/m of the content of the can.

MS 1250:2016 MEAT AND MEAT PRODUCTS-DETERMINATION OF MOISTURE CONTENT (REFERENCE METHOD) (First Edition) 4p M

This Malawi standard specifies a reference method for determination of the moisture content of meat and meat products**.**

MS 1251:2016 MEAT AND MEAT PRODUCTS - DETERMINATION OF NITROGEN CONTENT (First Edition) (4p) M

This Malawi standard specifies a reference method for the determination of the nitrogen content of meat and meat products.

MS 1252:2016 MEAT AND MEAT PRODUCTS - DETERMINATION OF HYDROXYPROLINE CONTENT (First Edition) (5p) M

This Malawi standard specifies a method for the determination of the hydroxyproline content of all kinds of meat and meat products, including poultry.

MS 1254:2016 MEAT AND MEAT PRODUCTS - DETERMINATION OF NITRITE CONTENT (REFERENCE METHOD) (First Edition) (4p) M

This Malawi standard specifies a reference method for the determination of the nitrite content of meat and meat products.

MS 1255:2016 MEAT AND MEAT PRODUCTS - DETERMINATION OF NITRATE CONTENT (REFERENCE METHOD) (First Edition) (7p) M

This Malawi standard specifies a reference method for the determination of the nitrate content of meat and meat products by means of extraction.

MS 1257:2016 BAKER`S – SPECIFICATION (First Edition) (16p) M

This Malawi standard prescribes the requirements and the methods of sampling and test for baker`s yeast.

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MS 1259:2017 CODE OF PRACTICE FOR GOOD ANIMAL FEEDING (First Edition) (9 p) M

The objective of this code is to help ensure the safety of food for human consumption through adherence to good animal feeding practice at the farm level and good manufacturing practices (GMPs) during the procurement, handling, storage, processing and distribution of animal feed ingredients for food producing animals.

MS 1260-1-1:2016 ELECTROMAGNETIC COMPATIBILITY (EMC) PART1: GENERAL SECTION 1: APPLICATION AND INTERPRETATION OF FUNDAMENTAL DEFINITIONS AND TERMS (23 p) M

The objective of this report is to describe and interpret various terms considered to be basic importance to the concepts and practical in the design and evaluation of electromagnetically compatible systems. In addition, attention is drawn to the distinction between electromagnetically compatibility (EMC) tests carried out in a standardized set-up and those carried out at the location where a device (equipment or system) is installed.

MS 1260-1-6:2016 ELECTROMAGNETIC COMPATIBILITY (EMC) PART 1-6 GENERAL – GUIDE TO THE ASSESSMENT OF MEASUREMENT UNCERTAINTY (52p) M

This part of MS 1260 provides methods and background information for the assessment of measurement uncertainty. It gives guidance to cover general measurement uncertainty considerations within the MS 1260 series.

MS 1260-2-6:2016 ELECTROMAGNETIC COMPATIBILITY (EMC) PART 2-6: ENVIRONMENT – SECTION 6: ASSESSMENT OF THE EMISSION LEVELS IN THE POWER SUPPLY OF INDUSTRIAL PLANTS AS REGARDS LOW-FREQUENCY CONDUCTED DISTURBANCES (First Edition) (49p) M

This technical report recommended the procedures to assess the disturbance levels produced by the emission of the devises, equipment and systems installed in no-public network in industrial environment as far as the low-frequency conducted disturbances in the power supply are concerned; on the basis, the relevant emission limits can be derived. It applies to low and medium voltage a.c non-public supply at 50/60 Hz. Networks for ships, aircraft, off-shore platforms, and railways are out of the scope of report.

MS1260-2-12:2016 ELECTROMAGNETIC COMPATIBILITY (EMC) PART 2-12: ENVIRONMENT- COMPATIBILITY LEVELS FOR LOW – FREQUENCY CONDUCTED DISTURBANCES AND SIGNALLING IN PUBLIC MEDIUM-VOLTAGE POWER SUPPLY SYSTEMS (19p) M

This part of MS 1260 with conducted disturbances in the frequency range from 0 kHz to 9 kHz, with an extension up to 148.5 kHz specifically for mains signalling systems. It gives compatibility levels for public medium voltage a.c distribution systems having a nominal voltage between 1 kV and 35 Kv and a nominal frequency of 50Hz or 60 Hz (see 600380).

MS 1260-3-3:2017 ELECTROMAGNETIC COMPATIBILITY (EMC) PART 3-3 (First Edition) (25p M)

This part of MS 1260 is concerned with the limitation of voltage fluctuations and flicker impressed on the public low-voltage system.

MS1260-3-4:2016 ELECTROMAGNETIC COMPATIBILITY (EMC) PART 3-4: LIMITS - LIMITATION OF EMISSION OF HARMONIC CURRENTS IN LOW - VOLTAGE POWER SUPPLY SYSTEMS FOR EQUIPMENT WITH RATED CURRENT GREATER THAN 16 A (9p) M

This part of MS 1260 deals with the emissions of disturbances due to harmonics.

MS 1260-3-5:2016 ELECTROMAGNETIC COMPATIBILITY (EMC) PART 3-5: LIMITS - LIMITATION OF FLUCTUATIONS AND FLICKER IN LOW - VOLTAGE POWER SUPPLY SYSTEMS FOR EQUIPMENT WITH RATED CURRENT GREATER THAN 75 A (6p) M

This part of MS 1260 deals with emissions of disturbances due to voltage fluctuations and flicker.

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MS 1260-3-8:2016 ELECTROMAGNETIC COMPATIBILITY (EMC) PART 3-8 LIMITS - SIGNALLING ON LOW VOLTAGE ELECTRICITY INSTALLATION – EMISSION LEVELS, FREQUENCY BANDS AND ELECTROMAGNETIC DISTURBANCE LEVELS (13p) M

This section of MS 1260-3 applies to electrical equipment using signals in the frequency rage from 3 Khz up to 525 kHz to transmit information on low-voltage electrical installations, either on the public supply system or within customers` premises.

MS 1260-3-11:2016 ELECTROMAGNETIC COMPATIBILITY (EMC) (9p) M

Part 3-11: Limits-Limitation of voltage changes, voltage fluctuations and flicker in public low-voltage supply systems-equipment with rated current75 A and subject to conditional connection

This part of MS 1260 is concerned with the emission of voltage changes, voltage fluctuations and flicker produced by equipment and impressed on the public low-voltage supply system.

MS1260-3-12:2016 ELECTROMAGNETIC COMPATIBILITY (EMC) PART 3-12: LIMITS-LIMITS FOR HARMONIC CURRENTS PRODUCED BY EQUIPMENT CONNECTED TO PUBLIC LOW - VOLTAGE SYSTEMS WITH INPUT CURRENTS > 16 A AND < 75 A PER PHASE (19p) M

This part of MS 1260 deals with the limitation of harmonic currents injected into the public supply systems. This limits given in this international standard are applicable to electrical and electronic equipment with a rated input current exceeding 16A and up to and including 75 A per phase, intended to be connected to public low-voltage a.c. distribution systems of the following types:

MS 1260-3-15:2016 ELECTROMAGNETIC COMPATIBILITY (EMC) PART 3-15: ASSSESSMENT OF LOW FREQUENCY ELECTROMAGNETIC IMMUNITY AND EMISSION REQUIREMENTS FOR THE DISPERSED GENERATION SYSTEMS IN LV NETWORKS (First Edition) (37p) M

This part of MS 1260 is concerned with the critical assessment of existing and emerging national and international standards for single and muilt-phase dispersed generation systems up to 75 A per phase, particularly converters connected to the public supply low voltage network, to serve as a starting point and to ultimately pave the way for the definition of appropriate EMC requirements and test conditions. This Technical Report is limited to EMC issues (immunity and emission) up to KHz and does not include other aspects of connection of generators to the grid.

MS 1260-4-1:2016 ELECTROMAGNETIC COMPATIBILITY (EMC)

Part 4-1: Testing and measurement technics - Overview of IEC 61000-4 series (9p) M

This part of MS 1260 covers testing and measuring techniques for electric and electronic equipment (apparatus and systems) in its electromagnetic environment.

MS1260-4-4:2016 ELECTROMAGNETIC COMPATIBILITY (EMC) PART 4-4: TESTING AND MEASUREMENT TECHNIQUES – ELECTRICAL FAST TRANSIENT/BURST IMMUNITY TEST (First Edition) (35p)M

This part of MS 1260 relates to the immunity of electrical and electronic equipment to repetitive electrical fast transient/bursts. It additionally defines ranges of test levels and establishes test procedures.

MS1260-4-6:2016 ELECTROMAGNETIC COMPATIBILITY (EMC) PART 4-6: TESTING AND MEASUREMENT TECHNIQUES – IMMUNITY TO CONDUCTED DISTRURBANCES INDUCED BY RADIO – FREQUENCY FIELDS (82 p) M

This part of MS 1260 relates to the conducted immunity requirements of electrical and electronic equipment to electromagnetic disturbances coming from intended radio – frequency range 150 KHz up to 80 MHz. Equipment not having at least one conducting wire and /or cable (such as mains supply, signal line or earth connection) which can couple the equipment to the disturbing RF fields is excluded from the scope of this publication.

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MS1260-4-8:2016 ELECTROMAGNETIC COMPATIBILITY (EMC) PART 4-8: TESTING AND MEASUREMENT TECHNIQUES-POWER FREQUENCY MAGNETIC FIELD IMMUNITY TEST (24p) M

This part of MS 1260 relates to the immunity requirements of equipment, only under operational conditions, to magnetic disturbances at power frequencies 50Hz related to:

- residential and commercial locations;
- industrial installations and power plants;
- medium voltage and high voltage sub-stations

MS 1260-4-9:2016 ELECTROMAGNETIC COMPATIBILITY (EMC) (20p) M

Part 4-9: Testing and measurement techniques –Pulse magnetic field immunity

This standard relates to the immunity requirements of equipment, only under operational conditions, to pulse magnetic disturbances mainly related to, industrial installation, medium voltage and high voltage sub-station.

MS 1260-4-10:2016 ELECTROMAGNETIC COMPATIBILITY (EMC) PART 4-10: TESTING AND MEASUREMENT TECHNIQUES – DAMPED OSCILLATORY MAGNETIC FIELD IMMUNITY TEST (First Edition) (22p) M

This Malawi standard relates to immunity requirements of equipment, only under operational conditions, to damped oscillatory magnet disturbances related to medium voltage and high voltage sub-stations**.**

MS 1260-4-12:2016 ELECTROMAGNETIC COMPATIBILITY (EMC)

Part 4-11: Testing and measurement techniques – voltage dips, short interruptions and voltage variations immunity test (First Edition) (19p) M

This part of MS 1260 defines the immunity test methods and rage of preferred test levels for electrical and electronic equipment connected to low-voltage power supply networks for voltage dips, short interruptions, and voltage variations.

MS 1260-4-14:2016 ELECTROMAGNETIC COMPATIBILITY (EMC) PART 4-14: TESTING AND MEASUREMENT TECHNIQUES – VOLTAGE FLUCTUATIONS IMMUNITY TEST FOR EQUIPMENT WITH INPUT CURRENT NOT EXCEEDING 16 A PER PHASE (First Edition) (10p) M

This part of MS 1260 is a basic electromagnetic compatibility (EMC) publication. It considers immunity tests for electrical and /or electronic equipment in their electromagnetic environment. Only conducted phenomena are considered, including immunity tests for equipment connected to public and industrial power supply networks.

MS 1260-4-16 ELECTROMAGNETIC COMPATIBILITY (EMC) PART 4-16: TESTING AND MEASUREMENT TECHNIQUES-TEST FOR IMMUNITY TO CONDUCTED, COMMON MODE DISTURBANCE IN THE FREQUENCY RANGE 0 HZ TO KHZ (First Edition) 16p M

This part of MS 1260 relates to the immunity requirements and test methods for electrical and electronic equipment to conducted, common mode disturbances in range d.c 150 kHz.

MS 1260-4-27:2016 ELECTROMAGNETIC COMPATIBILITY (EMC) PART 4-16: TESTING AND MEASUREMENT TECHNIQUES-UNBALANCE, IMMUNITY TEST FOR EQUIPMENT WITH INPUT CURRENT NOT EXCEEDING 16A PER PHASE (15p) M

This part of MS 1260 is a basic EMC (electromagnetic compatibility) publication. It considers immunity tests for electric and/or electronic equipment (apparatus and systems) in its electromagnetic environment. Only conducted phenomena are considered, including immunity tests for equipment connected to public and industrial networks.

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MS 1260-4-28:2017 ELECTROMAGNETIC COMPATIBILITY (EMC) PART 4-16: TESTING AND MEASUREMENT TECHNIQUES- VARIATION OF POWER FREQUENCY, IMMUNITY TEST FOR EQUIPMENT WITH INPUT CURRENT NOT EXCEEDING 16 A PER PHASE (First Edition) 9p M

This part of MS 1260 is a basic EMC electromagnetic compatibility) publication. It considers immunity tests for electric and /or electronic in its electromagnetic environment. Only conducted phenomena are considered, including immunity tests for equipment connected to public and industrial network.

MS 1260-4-30:2016 ELECTROMAGNETIC COMPATIBILITY (EMC) PART 4-30: TESTING AND MEASUREMENT TECHNIQUES – POWER QUALITY MEASUREMENT METHODS (First Edition) (58p) M

This part of MS 1260-4 defines the methods for measurement and interpretation of results for power quality parameters in a.c power supply systems with a declared fundamental frequency of 50Hz or 60 Hz.

MS 1260-4-34: 2016 ELECTROMAGNETIC COMPATIBILITY (EMC) PART 4-34 TESTING AND MEASUREMENT TECHNIQUES– VOLTAGE DIPS, SHORT INTERRUPTION AND VOLTAGE VARIATIONS IMMUNITY TEST FOR EQUIPMENT WITH MAINS CURRENT MORE THAN 16A PER PHASE (First Edition) (22p) M

This part of MS 1260 defines the immunity test methods and range of preferred test levels for electrical and electronic equipment connected to low-voltage power supply networks for voltage dips, short interruptions, and voltage variations.

MS 1260-6-1:2016 ELECTROMAGNETIC COMPATIBILITY (EMC) PART 6-1: GENERIC STANDARDS- IMMUNITY FOR RESIDENTIAL, COMMERCIAL AND LIGHT-INDUSTRIAL ENVIRONMENTS (First Edition) (9p) M

This part of MS 1260 for EMC immunity requirements applies to electrical and electronic apparatus intended for use in residential, commercial and light-industrial environments. Immunity requirements in the frequency range 0 Hz to 400 GHz are covered. No tests need to be performed at frequencies where no requirements are specified.

MS 1260-6-2:2016 ELECTROMAGNETIC COMPATIBILITY (EMC) PART 6-2: GENERIC STANDARDS – IMMUNITY FOR INDUSTRIAL ENVIRONMENTS (First Edition)(9p) M

This part of MS 1260 for EMC immunity requirements applies to electrical and electronic apparatus intended for use in industrial environments, as described below. Immunity requirements in the frequency range 0 Hz to 400GHz are covered. No tests need to be performed at frequencies where no requirements are specified.

MS 1260-6-3:2016 ELECTROMAGNETIC COMPATIBILITY (EMC) PART 6-3: GENERIC STANDARDS – EMISSION STANDARD FOR RESIDENTIAL, COMMERCIAL AND LIGHT-INDUSTRIAL ENVIRONMENTS (First Edition) (12p) M

This part of MS 1260 for EMC emission requirements applies to electrical and electronic apparatus intended for use in residential, commercial and light- industrial environments**.**

MS 1260-6-4:2016 ELECTROMAGNETIC COMPATIBILITY (EMC) PART 6-4: GENERIC STANDARDS – EMISSION FOR INDUSTRIAL ENVIRONMENTS (First Edition) (10p) M

This part of IEC 61000 for EMC emission requirements applies to electrical and electronic apparatus intended for use in industrial environments as described below**.**

MS 1260-6-5:2016 ELECTROMAGNETIC COMPATIBILITY (EMC) PART 6-5: GENERIC STANDARDS – IMMUNITY FOR POWER STATION AND SUBSTATION ENVIRONMENTS (First Edition) (22p) M

This technical specification sets immunity requirements for apparatus intended for use by Electricity Utilities in the generation, transmission and distribution of electricity and related telecommunication systems.

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MS 1265:2016 COOKED CURED HAM- SPECIFICATION (4p) M

This Malawi standard applies to products designated as “cooked ham” packaged in any suitable packaging material as defined in sub-section 5.4 and 5.5 below.

MS 1274:2016 CASSAVA CRISPS – SPECIFICATION (First Edition) (10p) M

This Malawi standard specifies requirements and methods of sampling and test for crisps made from sweet varieties of cassava (*Manihot esculenta* Crantz)

MS 1275:2022 GROUNDNUTS FLOUR - SPECIFICATION (Second Edition) (4p) M

This Malawi Standard specifies requirements and test methods of sampling and test for groundnuts flour from varieties of *Arachis hypogaea L*., intended for human consumption.

MS 1277:2021 MEAT AND MEAT PRODUCTS- DETERMINATION OF POLYPHOSPHATES (First Edition) (4p) M

This Malawi standard specifies a method for the detection of linear phosphates in meat and meat products by thin layer chromatographic separation.

MS 1279:2021 MEAT AND MEAT PRODUCTS - MEASUREMENT OF PH – REFERENCE METHOD (First Edition) (5p) M

This Malawi standard specifies the reference method for measuring the pH, of all kinds of meat and meat products, including poultry.

MS 1280:2021 MEAT AND MEAT PRODUCTS - DETERMINATION OF TOTAL ASH (First Edition) (5p) M

This Malawi standard specifies a method for the determination of the total ash from all kinds of meat and meat products, including poultry.

MS 1281:2021 MEAT AND MEAT PRODUCTS- DETERMINATION OF CHLORAMPHENICAL CONTENT-METHOD USING LIQUID CHROMATOGRAPHY (First Edition) (7p) M

This Malawi standard specifies a liquid chromatographic method for the determination of the chloramphenicol content of the muscle tissue of meat including poultry. The method is suitable for the determination of chloramphenicol contents greater than 6.5 µ/kg. Test samples which have deteriorated cannot be analysed with this method.

MS 1282:2021 MEAT AND MEAT PRODUCTS - DETERMINATION OF STARCH AND GLUCOSE CONTENT - ENZYMATIC METHOD (First Edition) (10p) V

This Malawi standard species an enzymatic method for the determination of water-free starch content and glucose content of all kinds of all kinds of meat and meat products, including poultry.

MS 1283:2021 MEAT AND MEAT PRODUCTS- DETERMINATION OF L-(+)-GLUTAMIC ACID CONTENT-REFERENCE METHOD (First Edition) (9p) M

This Malawi standard specifies a reference method for the determination of the L-(+)-glutamic acid content of meat and meat products including poultry.

MS 1284:2021 MEAT AND MEAT PRODUCTS- DETERMINATION OF STARCH CONTENT (REFERENCE METHOD) (First Edition) (7p) M

This Malawi standard specifies a reference method for the determination of the starch content of meat products

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MS 1285:2021 MEAT AND MEAT PRODUCTS- DETERMINATION OF FREE FAT CONTENT (First Edition) (5P) M

This Malawi standard specifies requirements for the determination of the free fat content of meat and meat products by means of extraction.

MS 1289-1:2017 PEPPER (PIPER NIGRUM L), WHOLE OR GROUND – SPECIFICATION PART 1: BLACK PEPPER (First Edition) (11p) M

This part of MS 1289 specifies requirements for black pepper *(Piper nigrum L*) (See MS 1068) ,whole or ground at the following commercial stages.

MS 1289-2:2017 PEPPER (PIPER NIGRUM L), WHOLE OR GROUND – SPECIFICATION PART 2: WHITE PEPPER (First Edition) (8p) M

This part of MS 1289 specifies requirements for white pepper (*Piper nigrum L*.) (MS 1068), whole or ground.

MS 1293:2017 DEHYDRATED GARLIC (ALLIUM SATIVUM L) – SPECIFICATION (First Edition)(8 p) M

This Malawi standard specifies requirements for dehydrated garlic (*Allium sativum **L.***)

MS 1299:2016 SPICES AND CONDIMENTS - DETERMINATION OF COLD WATER SOLUBLE EXTRACT (2p) M

This Malawi standard specifies a method for the determination of cold water soluble extract in spices and condiments**.**

MS 1300:2016 SPICES AND CONDIMENTS –DETERMINATION OF DEGREE OF FITNESS OF GRINDING-HAND SIEVING METHODS (REF METHOD) (First Edition) (3 p) M

This Malawi Standard specifies a reference method for the determination of the degree of fineness of grinding of spices and condiments, by hand sieving to obtain the distribution of particles sizes in the sample**.**

MS 1302:2016 TURMERIC - DETERMINATION OF COLOURING POWER: SPECTROPHOTOMETRIC METHOD (3p) M

This Malawi standard specifies a spectrophotometric method for the determination of the colouring power of turmeric.

MS 1304:2016 LEATHER-BOVINE WET BLUE - SPECIFICATION (First edition) (4p) M

This Malawi standard specifies requirements, methods of sampling and methods of test for wet blue leather produced from bovine hides tanned without hair and with the use of basic chromium sulfate as the primary tanning agent.

MS 1305:2016 LEATHER –WET BLUE SHEEP SKINS - SPECIFICATION (First Edition) (3p) M

This Malawi standard specifies requirements, methods of sampling and methods of test for wet blue leather produced from sheep skins tanned without wool and the use of basic chromium sulfate as the primary tanning agent.

MS 1306:2016 LEATHER – WET BLUE GOAT SKINS-SPECIFICATION (First Edition) (3p) M

This Malawi standard specifies requirements, methods of test for wet blue leather produced from goat skins tanned without hair and with the use of basic chromium sulfate as the primary tanning agent.

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MS 1307:2016 LEATHER - RAW HIDES OF CATTLE AND HORSES-PRESERVATION BY STACK SALTING (First Edition) (2p) M

This Malawi standard analyses the various preserving process defects likely to affect the raw hides of cattle and horses, and defines the rules for the preservation of these hides by stack salting

MS 1309:2016 LEATHER-SAMPLING-NUMBER OF ITEMS FOR A GROSS SAMPLE (First Edition) (2p) M

This Malawi standard specifies a method for the drawing, from a lot, of whole pieces of leather to form a gross sample.

MS 1308:2016 LEATHER-GUIDE TO THE SELECTION OF LEATHER FOR APPAREL (EXCLUDING FURS) (Fist Edition) (4p) M

This Malawi standard gives recommended values and related test methods apparel leather excluding furs. It also specifies the sampling and conditioning procedures of laboratory samples.

MS 1311:2016 LEATHER-PHYSICAL AND MECHANICAL TESTS-SAMPLE PREPARATION AND CONDITIONING (First Edition) (2p) M

This Malawi standard specifies the preparation of leather for physical and mechanical testing together with standard atmospheres for conditioning and testing. It is applicable to all types of dry leather.

MS 1314:2016 LEATHER – PHYSICAL AND MECHANICAL TESTS- DETERMINATION OF SURFACE COATING THICKNESS (First Edition) (6p) V

This Malawi standard specifies a method for the determining the thickness of the surface coating applied to leather when measured under zero compression. It is applicable to all types of leather

MS 1315-2:2016 LEATHER – DETERMINATION OF WATER RESISTANCE OF FLEXIBLE LEATHER-

Part 2: Repeated angular compression (MAESER) (First Edition) (6p) V

This part of MS1315 specifies a method for determining the dynamic water resistance of leather by means of repeated angular compression. It is applicable to all flexible leathers but is particularly suitable for leathers intended for footwear applications. It uses a maser-type machine and includes an option for electronic detection.

MS 1316-1:2016 LEATHER – PHYSICAL AND MECHANICAL TESTS- DETERMINATION OF TEAR LOAD –

Part 1: Single edge tear (First Edition) (4p) V

This part of MS 1316 specifies a method for determining the tear strength of leather using a single edge tear. This method is sometimes described as a trouser tear. It is applicable to all types of leather.

MS 1316-2:2016 LEATHER-PHYSICAL AND MECHANICAL TESTS-DETERMINATION OF TEAR LOAD

Part 2: Double edge tear (First Edition) (3p) M

This part of MS 1316 specifies a method for determining the tear strength of leather using a double edged tear. The method is sometimes described as the Baumann tear. It is applicable to all types of leather.

MS 1326:2016 STANDARD VOLTAGES (First Edition) (5p) M

This publication applies to a.c transmission, distribution and utilization systems and equipment for use in such systems with standard frequencies 50Hz and 60 Hz having a nominal voltage above 100Va.c and d.c traction systems:a.c and d.c equipment having nominal voltages below 120V a.c or below 750V d.c the a.c voltages being intended (but not exclusively) for 50Hz and 60 Hz applications: such equipment covers batteries (from primary or secondary cells), other power supply devices (a.c or d.c) electrical equipment (including industrial and communication), and appliances.

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MS 1327:2016 STANDARD CURRENT RATING (First Edition) (1p) M

The standard specifies standard current ratings for electrical devices, apparatus, instruments and equipment and should be applied to the designing and utilization systems or equipment as well as to operating characteristics.

MS 1331:2017 EDIBLE MUSHROOM AND MUSHROOM PRODUCTS – SPECIFICATION (First Edition) (11p) M

This Malawi standard contains general requirements applicable to all edible mushroom (fungi), whether fresh or processed, permitted for sale by the competent authorities in the consuming countries , except canned cultivated mushrooms of the genus *Agaricu*s. Different requirements for the products covered by this standard may be laid down in group of products standards or in individual standard

MS 1333:2016 SPICES AND CONDIMENTS-PREPARATION OF GROUND SAMPLE FOR ANALYSIS (2p) M

This Malawi standard specifies a method of preparing a ground sample of spice or condiment for analysis, from a laboratory sample obtained by the method specified in MS 140.

MS 1345:2016 CODE OF PRACTICE FOR CONTROL OF THE USE OF VETERINARY DRUGS (First Edition) (3 p) M

This code sets out guidelines on the prescription, application, distribution and control of drugs used for treating animals, preserving animal health or improving animal production. This code has been developed to contribute towards the protection of public health.

MS 1343:2016 CODE OF HYGIENIC PRACTICE FOR LOW ACID AND ACIDIFIED LOW ACID CANNED FOODS (First Edition) (78p) M

This code of practice is concerned with the canning and heat processing of low-acid and acidified low-acid foods as defined in this code, packed in hermetically sealed containers. It does apply to foods in hermetically sealed containers which require refrigeration. Appendix 1 applies specifically to acidified low-acid foods.

MS 1348:2016 QUICK FROZEN BROCCOLI –SPECIFICATION (First Edition) (7p) M

This Malawi standard shall apply to quick frozen broccoli of the species *Brassica oleracea* L. Plenck (sprouting broccoli) as defined below and offered for direct consumption without further processing, except for re-packing, if required. It does not apply to the product when indicated as intended for further processing or for other industrial purposes.

MS 1349:2016 CANNED SWEET CORN – SPECIFICATION (First Edition) (5p) M

This Malawi standard shall apply to canned sweet corn.

MS 1350:2016 CODE OF HYGIENIC PRACTICE FOR DRIED FRUITS (7p) M

This code of practice applies to all fruits that have been dried by natural or artificial means or a combination of both. The fruit is dried to the extent that the greater part of the moisture has been removed, and in addition the fruit may be subjected to a safe and appropriate treatment in preparation and packing, to permit marketing in normal trade channels. Fruit covered by this code include apples, apricots, peaches, pears, nectarines, prunes, figs, dates, and vine fruits such as currants. Fruit other than vine fruits prior to drying, if desired, and applicable for the particular fruit, may be cored, or pitted, sliced, diced, quartered, halved, or otherwise subdivided. This code does not apply to fruits commonly known as dehydrated fruits with a moisture content not exceeding 5 %.

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MS 1351:2016 QUICK FROZEN STRAWBERRIES - SPECIFICATION (First Edition) 6 p M

This Malawi Standard applies to quick frozen strawberries (excluding quick frozen strawberry puree) of the species *Fragaria grandiflora* L. And *Fragaria vesca* L. As defined in Clause 3.1 and offered for direct consumption without further processing, except for size grading or repacking if required. It does not apply to the product when indicated as intended for further processing or for other industrial purposes**.**

MS 1352:2016 CANNED STRAWBERRIES - SPECIFICATION (5 p) M

This Malawi standard specifies the requirements and test methods of sampling and test for canned strawberries.

MS 1354:2016 CODE OF HYGIENIC PRACTICE FOR DEHYDRATED FRUITS AND VEGETABLES INCLUDING EDIBLE FUNGI (6 p) M

This code of practice applies to fruit vegetables which are artificially dehydrated (including freeze-dried), either from the succulent stage or in combination with sun-drying, and covers products commonly associated with the phrase dehydrated food.

MS 1355:2016 QUICK FROZEN PEAS - SPECIFICATION (First Edition) (5 p) M

This Malawi standard shall apply to quick frozen peas of the species *Pisum sativum* L. as defined below and offered for direct consumption without further processing, except for size grading or repacking if required. It does not apply to the product when indicated as intended for further processing, or for other industrial purposes**.**

MS 1357:2016 COCOA BUTTER CONFECTIONERY - SPECIFICATION (First Edition) (3p) M

This Malawi standard applies to the homogeneous product prepared from cocoa butter, milk products and sugars and additions for in the standard.

MS 1358:2021 QUICK FROZEN FRENCH FRIED POTATOES - SPECIFICATION (Second Edition) (6p) M

This Malawi standard applies to quick frozen French fried potatoes which have been prepared from tubers of the species *Solanum tuberosum* L and offered for direct consumption without further processing except for repacking if required.

MS 1360:2016 CODE OF HYGIENIC PRACTICE FOR DESICCATED COCONUT - SPECIFICATION (First Edition) (6 p) M

This code of practice applies to desiccated coconut, the dried product prepared for human consumption without requiring further processing which is obtained but shredding or otherwise commuting the pared kernel of coconuts, the fruit of the palm, *Cocos nucifera*.

MS 1361:2016 ROUTINE ANALYTICAL CIGARETTE – SMOKING MACHINE – DEFINITIONS AND STANDARD CONDITIONS (First Edition) (25p) M

This standard defines smoking parameters and specifies the standard conditions to be provided for the routine analytical machine smoking of cigarettes.

MS 1362:2016 CIGARETTES – SAMPLING (First Edition) (10p) V

This standard specifies two methods of providing representative samples of a population of cigarettes manufactured for sale. Different procedures are specified (see Table1) according to whether sampling is undertaken at the point of sale or at a factory**.**

MS 1363:2016 TOBACCO AND TOBACCO PRODUCTS-DETERMINATION OF THE WIDTH OF THE STRANDS OF CUT TOBACCO (6p) M

This standard specifies a method for the determination of the width of strands of cut tobacco. It only applicable if there is a uniform cut width.

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MS 1364:2016 SYNTHETIC DETERGENT PASTE – SPECIFICATION (First Edition) (11p) M

This Malawi standard prescribes the requirements, methods of sampling and test for synthetic detergent pastes based predominantly on the use of alkyl aryl sulphonates for hand machine wash.

MS 1365:2016 CIGARETTES-DETERMINATION OF TOTAL AND NICOTINE – FREE DRY PARTICULAATE MATTER USING A ROUTINE ANALTICAL SMOKING MACHINE (First Edition) (16p) M

This standard specifies methods for the determination of total particulate matter and for the subsequent determination of nicotine-free dry particulate matter present in the smoke from cigarettes generated and collected using a routine analytical smoking machine.

MS 1366:2016 TOBACCO AND TOBACCO PRODUCTS-DETERMINATION OF WATER CONTENT-KARL FISHER METHOD (First Edition) (7p) M

This standard specifies a method for the determination of water content by Karl Fisher method. It is applicable to raw tobacco taken from finished products. The method is suitable for water contents ranging from a mass fraction of at least 2% to 55%.

MS 1367:2016 TOBACCO AND TOBACCO PRODUCTS –DETERMINATION OF WATER CONTENT-GAS CHROMATOGRAPHIC METHOD (8p) M

WARNING:
The use of this standard can involve hazardous materials, operations and equipment.This International standard does not purport to address all the safety problems associated with its use. It is the responsibility of the user of this International standard to establish appropriate and health practices and determine the applicability of regulatory limitations prior to use.

MS 1382:2017 HIGH QUALITY CASSAVA FLOUR (HQCF) – SPECIFICATION (First Edition) (6p) M

This Malawi standard specifies the requirements and methods of sampling and test for high quality cassava flour which is obtained from the processing of cassava roots (*Manihot esculenta* Crantz) intended for human consumption, industrial use and other application.

MS 1383:2017 FRUIT CORDIALS – SPECIFICATION (First Edition) (3p) M

This Malawi standard specifies the requirements for fruit cordials.

MS 1384:2017 SWEET POTATO CRISPS – SPECIFICATION (First Edition) (10p) M

This Malawi standard specifies the requirements and methods of sampling and test for crisps made from storage roots of sweet potato *Ipomoea batatas* (L) intended for human consumption

MS 1385:2017 SWEET POTATO FLOUR- SPECIFICATION (First Edition) (5p) M

This Malawi standard specifies the requirements and methods of sampling and test for flour which is obtained from the processing of sweet potato roots (*Ipomoea batatas* (l) Lam) intended for human consumption.

MS 1386:2017 CASSAVA AND CASSAVA PRODUCTS-DETERMINATION OF TOTAL CYANOGENS - ENZYMATIC ASSAY METHOD (First Edition) (3p) M

This Malawi standard specifies a method for the determination of total cyanogens in cassava products.

MS 1387:2017 FLAVOURED DRINKS IN SOLID FORM – SPECIFICATION (First Edition) (4 p) M

This Malawi standard specifies the requirements, methods of test and sampling for flavoured drinks in solid form intended for direct human consumption as ready to drink beverage after reconstitution with potable water.

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MS 1388:2018 FORTIFIED WINE – SPECIFICATION (First Edition) (4p) M

This Malawi standard specifies requirements and methods of sampling and test for fortified wines.

MS 1389:2018 SPARKLING WINE – SPECIFICATION (First Edition) (4p) M

This Malawi standard specifies requirements and methods of sampling and test for sparkling wine.

MS 1390:2017 ENERGY DRINKS- SPECIFICATION (First Edition) (4p) M

This Malawi standard specifies requirements and methods of test for non-alcoholic energy drinks, intended for direct consumption. This standard does not cover athletes/sports drinks.

MS 1391:2018 MOZZARELLA – SPECIFICATION (First Edition) (5p) M

This Malawi applies to Mozzarella intended for direct consumption or for further processing, in conformity with the description in section 3 of this standard.

MS 1392:2017 FRUIT JUICE DRINKS – SPECIFICATION (First Edition) (8p) M

This Malawi standard specifies requirements and methods of sampling and test for ready to serve drinks containing fruit juice.

MS 1393:2017 FRUIT BASED SOFT DRINKS WITH MILK – SPECIFICATION (First Edition) (4p) M

This Malawi standard specifies requirements and test for fruit based soft drinks with milk, intended for direct consumption. This standard covers fruit based soft drinks made from a blend of skimmed milk and fruit juices.

MS 1395:2018 COTATGE CHEESE - SPECIFICATION (First Edition) (3p) V

This Malawi standard applies to cottage cheese intended for direct consumption or for further processing in conformity with the description in section **3** of this standard

MS 1396:2018 EDIBLE CASEIN PRODUCTS – SPECIFICATION (First Edition) (4p) M

This Malawi standard applies to edible acid casein, edible rennet casein and caseinate, intended for direct consumption or further processing, in conformity with the description in section **3** of this standard.

MS 1398:2018 A BLED OF EVAPORATED SKIMMED MILK AND VEGETABLES FAT – SPECIFICATION (First Edition) (3p) M

This Malawi standard applies to a blend of evaporated skimmed milk and vegetable fat, also known as blend of unsweetened condensed skimmed milk and vegetable fat, which is intended for direct consumption, or further processing, in conformity with the description in section 3 of this standard.

MS 1400:2018 A BLEND OF SKIMMED MILK AND VEGETABLE FAT IN POWDERED FORM – SPECIFICATION (First Edition) (4p) M

This Malawi standard applies to a blend of skimmed milk and vegetable fat in powdered form, intended for direct consumption, or further processing.

MS 1401:2018 A BLEND OF SWEETENED CONDENSED SKIMMED MILK AND VEGETABLE FAT – SPECIFICATION (First Edition) (4p) M

This Malawi standard applies to a blend of sweetened skimmed milk and vegetable fat intended for direct consumption, or further processing.

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MS 1403:2016 CANNED CRAB MEAT-SPECIFICATION (First Edition) (5p) M

This Malawi standard applies to canned crab meat. It does not apply to speciality products where crab meat constitutes less than 50% m/m of the contents.

MS 1404:2016 QUICK FROZEN FISH STICKS (FISH FINGERS) FISH PORTIONS AND FISH FILLETS – BREADED OR IN BATTER – SPECIFICATIONS (First Edition) (8p) M

This Malawi standard applies to quick frozen fish sticks (fish fingers) and fish portions cut from quick frozen fish flesh blocks, or formed from fish flesh , and to natural fish fillets, breaded or batter, coatings , singly or in combination , raw or partially cooked and offered for direct human consumption without further industrial processing

MS 1405:2016 DRIED SHARK FINS - SPECIFICATION (First Edition) (5p) M

This Malawi standard applies to dried shark fins intended for further processing.

MS 1409-1:2017 AUTOMATIC INSTRUMENTS FOR WEIGHING ROAD VEHICLES IN MOTION AND MEASURING AXLE LOADS PART 1: METROLOGICAL AND TECHNICAL REQUIREMENTS – TESTS (First Edition) (81p) M

This international Recommendation specifies the requirements and test methods for discontinuous totalizing automatic weighing instruments (totalizing hopper weighers), hereafter referred to as Instruments.

MS 1409-2:2017 AUTOMATIC INSTRUMENTS FOR WEIGHING ROAD VEHICLES IN MOTION AND MEASURING AXLE LOADS PART 2: TEST REPORT FORMAT (First Edition) (77p) V

This " Test report format" aims at presenting, in a standardized format, the results of various tests and examinations to which a type of an automatic instrument for measuring axle load and the mass of road vehicles in motion shall be submitted with a view to its approval

MS 1410-1:2017 DISCONTINUOUS TOTALIZING AUTOMATIC WEIGHING INSTRUMENTS (TOTALIZING HOPPER WEIGHERS)

Part 1: Metrological and technical requirements –Tests (First Edition) (81p) V

This International Recommendation specifies the requirements and test methods for automatic instruments for weighing road vehicles in motions, hereinafter refed to as "WIM instruments "that are used to determine the vehicle mass, the axle loads and if applicable the axle-group loads of road vehicles when the vehicles are weighed in motion.

MS 1410-2:2017 DISCONTINUOUS TOTALIZING AUTOMATIC WEIGHING INSTRUMENTS (TOTALIZING HOPPER WEIGHERS) PART 2: TEST REPORT FORMAT (First Edition)(95p) M

This report format aims at presenting, in a standardized format, the results of the various tests and examinations to which a type of a totalizing automatic weighing instruments shall be submitted with a view to its approval.

MS 1411-1:2017 WEIGHTS OF CLASSES E1, E 2, F1, F2, M1, M1-1, M2, M2-3 AND M3 PART 1: METROLOGICAL AND TECHNICAL REQUIREMENTS (First Edition)(78p) M

This Recommendation contains technical (e.g. principal physical characteristics) and Metrological requirements for weights used.

MS 1411-2:2017 WEIGHTS OF CLASSES E1, E2, F1, F2, M1, M1-2, M2, MS 2-3 AND M3 – PART 2: TEST REPORT FORMAT (First Edition) (37p) M

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MS 1412-2:2017 DYNAMIC MEASURING SYSTEMS FOR LIQUIDS OTHER THAN WATER (First Edition) (169p) M

This Recommendation specifies the metrological and technical requirements applicable to dynamic measuring systems for quantities (volume or mass) of liquids other than water subject to legal metrology controls. It also provides requirements for the approval of specific components of the measuring systems (meter, electronic calculator, etc.)

MS 1416-1:2017 WATER METERS INTENDED FOR THE METERING OF COLD POTABLE WATER

Part 1: Metrological and technical requirements (First Edition) (31p) M

This recommendation applies to water meters used to meter the actual volume of cold potable water flowing through a fully charged, closed conduit. These water meters shall incorporate devices which indicate the integrated volume.

MS 1416-2:2017 WATER METERS INTENDED FOR THE METERING OF COLD POTABLE WATER AND HOT WATER

Part 2: Test methods (First Edition) (77p) V

This recommendation is applicable to the type evaluation and initial verification testing of water meters intended for the metering of cold potable water and hot water as defined in OIML r 49-1 (1) OIML certificates of conformity may be issued for water meters under the scope of OIML certificate systems, providing that the three parts of this recommendation are used accordance with the rules of the system.

MS 1417-1:2017 CONTINUOUS TOTALIZING WEIGHING INSTRUMENTS (BELT WEIGHERS)

Part 1: Metrological and technical requirements – Tests (First Edition) (50p) M

This International Recommendation specifies the metrological and technical requirements for continuous totalizing automatic weighing instruments of the belt conveyor type, hereinafter referred to as belt weighers that are subject to national metrological control.

MS 1417-2:2017 CONTINUOUS TOTALIZING WEIGHING INSTRUMENTS (BELT WEIGHERS)

Part 2: Test procedures (First Edition) (47p) M

Review the documentation that is submitted, including necessary photographs, drawings, relevant technical specifications of main components, to determine whether it is adequate and correct consider the operational manual.

MS 1418:2017 TAXIMETERS – METROLOGY AND TECHNICAL REQUIREMENTS, TEST PROCEDURES AND TEST REPORT FORMAT (First Edition) (112p) M

This International Recommendation specifies the metrological and technical requirements and test procedures for taximeters that are subject to national metrological control.

MS 1420:2017 LENGTH MEASURING INSTRUMENTS (First Edition) (12p) M

This recommendation applies to length measuring instruments (hereinafter called «Instrument ») that is to say instruments (other than length measures) which determine the length of a line , wire , cable, tape, piece of cloth , strip, sheet or any other developable piece.

MS 1422-1&2:2017 ACTIVE ELECTRICAL ENERGY METERS PART1: METROLOGICAL AND TECHNICAL REQUIREMENTS PART 2: METROLOGICAL CONTROLS AND PERFORMANCE TESTS (First Edition) (52p) M

This recommendation specifies the metrological and technical requirements applicable to electricity meters subject to legal metrological controls. The requirements are to be applied during type approval, verification, and re-verification. They also apply to modifications that may be made to existing approval devices.

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MS 1423:2017 MEDICAL SYRINGES (First Edition) (8p) M

The glass barrels, intended for general use.

MS 1424:2017 STANDARD CAPACITY MEASURES FOR TESTING MEASURING SYSTEMS FOR LIQUIDS OTHER THAN WATER (First Edition) (36p) M

This recommendation specifies the characteristics of standard capacity measurements and describes the methods by which measuring systems for liquids other than water (hereinafter called "measuring systems) are tested in order to verify that they comply with the relevant metrological requirements in the International Recommendation OIML R 117 Measuring systems for liquids other than water

MS 1425:2017 RADAR EQUIPMENT FOR MEASUREMENT OF SPEED OF VEHICLES (First Edition) (13p) M

This recommendation is applicable to microwave Doppler radar equipment for the measurement of traffic speed on roads, hereafter, in short, radar. The recommendation states that the radar must satisfy when the results of measurement are to be used in legal proceedings. The legal interpretation of the results of measurements, the choice of radar types and the conditions under which these instruments may be applied are left to national regulation.

MS 1426:2017 EVIDENTIAL BREATH ANALYZERS (First Edition) (69p) M

This Recommendation applies to quantitative breath alcohol analyzers that render a measurement result of alcohol concentration in exhales human breath for the purpose of establishing compliance with national policy for fighting against alcohol abuse.

MS 1427:2017 VESSELS FOR COMMERCIAL TRANSACTIONS (First Edition) (10p) M

This Recommendation applies to volumetric containers or vessels used to measure, and when applicable to store and transport, liquids for commercial transactions.

MS 1428:2017 HEXAGONAL WEIGHTS – METROLOGICAL AND TECHNICAL REQUIREMENTS (First Edition) (7p) M

This Recommendation applies to hexagonal weights made of grey cast iron with denominations specified in 1.2 below.

MS 1429-1:2017 MATERIAL MEASURES OF LENGTH FOR GENERAL USE

Part 1: Metrological and technical requirements (First Edition) (36p) M

This recommendation applies to materials measures of length for general use, hereinafter called “measure“.

MS 1429-2:2017 MATERIAL MEASURES OF LENGTH FOR GENERAL USE

Part 2: Test methods (First Edition) (42p) M

This recommendation is applicable to the type evaluation and initial verification testing of material measures of length for general use as defined in OIML R 35-1.

MS 1429-3:2017 MATERIAL MEASURES OF LENGTH FOR GENERAL USE

Part 3: Test report format (First Edition) (52p) M

MS 1430:2018 PACKAGED, DRY, COMBINED MATERIALS FOR MORTAR AND CONCRETE- SPECIFICATION (First Edition) (7p) M

This specification covers the production, properties, packaging and testing of packaged, dry, combine materials for concrete and mortars.

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MS 1431:2017 EDIBLE CASSAVA STARCH – SPECIFICATION (First Edition) (5p) M

This Malawi standard specifies the requirements and the methods of sampling and test for edible cassava.

MS 1437:2020 SPORTS DRINKS – SPECIFICATION (First Edition) (4p) M

This Malawi standards species the requirements for sports (electrolyte) drinks, sold as either ready-to-drink beverages or in a concentrated syrup or powder form for reconstitution with potable water.

MS 1438:2023 FRUIT SYRUPS – SPECIFICATION (First Edition) (3p) M

This Malawi standard specifies the requirements and methods of sampling and test for fruit syrups intended for direct human consumption as a ready to drink beverage after dilution with potable water.

MS 1442:2020 TEA – CLASSIFICATION OF GRADES BY PARTICLE SIZE ANALYSIS (First Edition) (3p)

This Malawi standard specifies a method for the classification of grades of grades of tea according to an analysis of their particle size. It is not applicable to large, leafy grades of tea.

MS 1443-1:2020 APPLE JUICE, APPLE JUICE CONCENTRATES AND DRINKS CONTAINING APPLES JUICE – DETERMINATION OF PATULIN CONTENT – PART1: METHOD USING HIGH – PERFORMANCE LIQUID CHROMATOGRAPHY (First Edition) (4p) M

This Malawi standard specifies a method using high performance liquid chromatography for the determination of patulin content of apple juice concentrates and drinks containing apple juice. The limit of detection of the method is 10uj/I, based on 5ml of ready to drink apple juice.

MS 1443-2:2020 APPLE JUICE, APPLE JUICE CONCENTRATES AND DRINKS CONTAINING APPLES JUICE – DETERMINATION OF PATULIN CONTENT – PART2: METHOD USING THIN –LAYER CHROMATOGRAPHY (First Edition) (5p) M

This Malawi standard specifies a method using thin-layer chromatography for the determination of patulin content of apple juice concentrates and drinks containing apple juice. The limit of detection of the method is 25uj/I, based on 50ml of ready to drink apple juice.

MS 1445:2018 REUSABLE SANITARY TOWELS - SPECIFICATION (First Edition) (10p) M

This Malawi standard prescribes the requirements and methods of sampling and test for reusable sanitary towels (also called sanitary napkins) including reusable panty liners for external use

MS 1449:2020 WHEY CHEESES – SPECIFICATION (First Edition) (4p) M

This Malawi standard applies to all products intended for direct consumption or further processing, in conformity with the definition of whey cheeses in section 3 of this standard. Subject to the provisions of this standard, Malawi standards for individual varieties of whey cheeses may contain provisions which are more specific than those in this standard.

MS 1450:2020 WHEY CHEESE – DETERMINATION OF DRY MATTER (REFERENCE METHOD) (First Edition) (3p) M

This Malawi standard specifies a reference method for the determination of the dry matter of whey cheese.

MS 1452:2020 CREAM CHEESE – SPECIFICATION (First Edition) (4p) M

This Malawi standard prescribes the requirements and methods of sampling and test for cream cheese intended for direct consumption or for further processing in conformity with the description in section 3 of this standard.

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MS 1454:2020 GOUDA CHEESE – SPECIFICATION (First Edition) (4p) M

This Malawi standard prescribes the requirements and methods of sampling and test for gouda cheese intended for direct consumption or for further processing in conformity with the description in section 3 of this standard.

MS 1455:2020 UNRIPENED CHEESE INCLUDING FRESH CHEESE – SPECIFICATION (First Edition) (3p) M

This Malawi standard applies to unripened cheese including fresh cheese, intended for direct consumption or further processing, in conformity with the description in section 3 of this standard. Subject to the provisions of this standard, Malawi standards for individual varieties of unripened cheese may contain provisions, which are more specific than those in this standard and in these cases; those specific provisions shall apply.

MS 1456:2020 CHEESES IN BRINE – SPECIFICATION (First Edition) (3p) M

This Malawi standard applies to cheeses in brine, intended for direct consumption or further processing, in conformity with the description in section 3 of this standard. Subject to the provisions of this group standard, Malawi standards for individual varieties of cheeses in brine may contain provisions which are more specific than those in this standard

MS 1457:2020 FLAVOURED MILK – SPECIFICATION (First Edition)(3p) M

This Malawi standard prescribes requirements and the methods of sampling and test for flavoured milk.

MS 1458:2020 GREEN GRAMS – SPECIFICATION AND GRADING (First Edition) (6p) M

This Malawi standard applies to dry whole grains of the green gram of the cultivar *Vigna radiate* intended for direct human consumption. The standard does not apply to green grams intended for factory grading and packaging, industrial processing, or to those green grams intended for use in the feeding of animals.

MS 1459:2020 FINGER MILLET – SPECIFICATION (First Edition) (5p) M

This Malawi standard specifies the quality and grading requirements and methods of test for finger millet grains of varieties (cultivars) grown from *Eleusine coracana**(L)*** Gaertner intended for human consumption , i.e. ready for its intended use as human food, presented in in packaged form or solid loose from the package directly to the consumer. It does not apply to other products derived from finger millet grains.

MS 1460:2020 CHICKPEAS – SPECIFICATION AND GRADING (First Edition) (7p) M

This Malawi standard specifies the quality and grading requirements and methods of analysis for dry chick peas of the varieties (cultivars) grown from *Cicer arietium* Linn. Intended for human consumption.

MS 1461:2021 GREEN COFFEE – PREPARATION OF SAMPLES FOR USE IN SENSORY ANALYSIS (First Edition) (4p) V

This This Malawi standard specifies a method for the roasting of green coffee, the grinding of roasted coffee, and the preparation, from the ground coffee, of a beverage to be used in sensory analysis.

MS 1464:2021 GREEN COFFEE – OLFACTORY AND VISUAL EXAMINATION AND DETERMINATION OF FOREIGN MATTER AND DEFECTS (First Edition) (5p) V

This Malawi standard specifies methods for the olfactory and visual examination and determination of foreign matter and defects in green coffee from all origins. These methods can also be used for determining the characteristics of green coffee with an impact on coffee quality control.

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MS 1467:2020 FERTILIZERS – DETERMINATION OF MOISTURE AND IMPURITIES (First Edition) (24p) M

This Malawi standard prescribes the methods for determination of moisture and impurities and, namely, biuret, free acidity, arsenic, calcium nitrate, fluorine, nickel, chromium and sodium in fertilizers and fertilizer mixtures**.**

MS 1492:2021 FRUIT LEATHER – SPECIFICATION (First Edition) (6p) M

This Malawi standard prescribes requirements and methods of sampling and test for fruit leather offered for direct consumption, including for catering purposes or for repacking if required.

MS 1495:2022 FRUIT PUREE – SPECIFICATION (First Edition) (8p)M

This Malawi standard prescribes requirements and methods of sampling and test for fruit puree offered for direct consumption, including catering purposes, repacking or further processing if re-quired.

MS 1505:2021 ICE CREAM CONES – SPECIFICATION (First Edition) (7p) M

This Malawi standard specifies the requirements, methods of sampling and test for ice cream cones suitable for filling ice cream.

MS 1506:2021 SELF-RAISING FLOUR - SPECIFICATION.(First Edition) (13p) M

This Malawi standard prescribes the requirements and the methods of sampling and testing for self-raising flour.

MS 1508:2020 TEA – DETERMINATION OF TOTAL ASH (First Edition) (2 p) M

This Malawi Standard specifies a method for the determination of the total ash from tea.

MS 1509:2020 TEA – DETERMINATION OF WATER-SOLUBLE ASH AND WATER-INSOLUBLE ASH (First Edition) (3p) V

The Malawi standard specifies a method for the determination of water-soluble ash and the water-insoluble ash of tea.

MS 1510:2019 TEA – DETERMINATION OF ACID-INSOLUBLE ASH (First Edition) (3p) M

This Malawi standard specifies the determination of acid-insoluble ash from tea.

MS 1517:2021 GREEN COFFEE IN BAGS – METHOD OF SAMPLING (First edition) (4p) V

This Malawi standard specifies a method of sampling a consignment of green coffee, shipped in ten bags or more, for the purpose of examination to determine whether the consignment complies with a contract specification.

MS 1519:2021 INSTANT COFFEE – CRITERIA FOR AUTHENTICITY (First Edition) (2p) V

This Malawi standard specifies criteria for authenticity of instant (soluble) coffee**.**

MS 1520:2020 FRESH FRUITS AND VEGETABLES – SAMPLING (First Edition)(5p) V

This Malawi standard specifies a method of sampling fresh fruits and vegetables, with a view to determining the quality or particular characteristics of the goods.

MS 1521:2020 GARLIC PASTE – SPECIFICATION (First Edition)(5 p) M

This Malawi standard specifies requirements and the methods of sampling and test for garlic paste.

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MS 1522:2020 DRIED PARSLEY – SPECIFICATION (First Edition) (4p) M

This Malawi standard specifies requirements for dried parsley *(Petroselinum crispum, synonyms: Petroselium horyense, Petroselium satium, Apium Petroselinum)* in whole, cut leaves or rubbed (ground) form. The term dried parsley "includes dehydrated parsley, i.e. artificially dried parsley.

MS 1523:2020 DRIED MEAT – SPECIFICATION (First Edition) (5p) M

This Malawi standard specifies the requirements, methods of test and sampling for dried meat.

MS 1525:2020 CHILLI OIL – SPECIFICATION (First Edition) (4p) M

This Malawi standard specifies the requirements, sampling and test methods for chilli oil intended for human consumption**.**

MS 1527:2020 DEHYDRATED VEGETABLES – SPECIFICATION (First Edition) (8p) M

This Malawi standard specifies requirements and methods of test and sampling for dehydrated intended for direct consumption or further processing, including for catering purposes or repackaging if required**.**

MS 1528:2020 APPLES – SPECIFICATION (First Edition) (6p) M

This Malawi standards applies to fruits of commercial varieties (cultivars) of apples grown from *Malus domestica Borkh*, of the *Rosaceace* family, to be supplied fresh to the consumer, after preparation and packaging. Apples for industrial processing are excluded**.**

MS 1529:2023 KOMBUCHA DRINK – SPECIFICATION (First Edition)(4p) M

This Malawi standard specifies the requirements and the methods of sampling and test for kombucha drink.

MS 1542-41:2020 ELECTRICITY METERING – DATA EXCHANGE FOR METER READING, TARIFF AND LOAD CONTROL (First edition) (29p) M

Part 41: Data exchange using wide area networks: Public switched telephone networks: (PSTN) with LINK + protocol

This Malawi standard describes a three layer data exchange architecture used for communication with large industrial and commercial customers` metering equipment (aiming, in particular, at the remote reading of these meters for billing purposes). The public switched telephone network (PSTN) is used as a communication medium for this data exchange.

MS 1542-51:2020 ELECTRICITY METERING – DATA EXCHANGE FOR METER READING, TARIFF AND LOAD CONTROL (First edition) (29p) M

Part 51: Application layer protocols

This technical report describes an architecture application layer used for communication with metering equipment in general, whatever the associated physical medium and lower layer protocols in a collapsed three-layer model.

MS 1543-1:2020 INSTRUMENT TRANSFORMERS (First Edition) (50p) M

Part 1: General requirements

This Malawi standard is applicable to newly manufactured instrument transformers with analogue or digital output for use with electrical measuring instruments or electrical protective devices having rated frequencies from 15Hz to 100 Hz.

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MS 1543-3:2021 INSTRUMENT TRANSFORMERS (First edition) (19p) M

Part 3: Additional requirements for inductive voltage transformers

This part of MS 1543 applies to new inductive voltage transformers for use with electrical measuring instruments and electrical protective devices at frequencies from 15 Hz to 100 Hz.

MS1544-11:2020 ELECTRICITY METERING (A.C) - PARTICULAR REQUIREMENTS (First Edition)(10p) M

Part 11: Electromechanical meters for active energy (Classes 0.5, 1 and 2)

This part of MS 1544applies only to newly manufactured electromechanical watt-hour meters of accuracy classes 0.2,1 and 2 ,for the measurement of alternating current electrical active energy in 50Hz or 60Hz networks and it applies to their type tests only

MS 1544-22:2020 ELECTRICITY METERING (A.C) - PARTICULAR REQUIREMENTS. (First Edition)(12p)M

Part 22: Static meters for active energy (Classes 0.2S and 0.5S)

This part of MS 1544applies only to newly manufactured electromechanical watt-hour meters of accuracy classes 0.2 S, and 0.5 S, ,for the measurement of alternating current electrical active energy in 50Hz or 60Hz networks and it applies to their type tests only

MS 1544-61:2020 ELECTRICITY METERING EQUIPMENT (a.c) – PARTICULAR REQUIREMENTS

Part 61: Power consumption and voltage requirements (First edition) (3p) M

This Malawi standard applies only to newly manufactured "combined meters", measuring more than one type of electric energy (e.g. active and reactive) and meters integrating additional functions which are not in the scope of the IEC 60687, IEC 61036, IEC 61268 standards and the standard in preparation for static apparent energy meters: these additional functions, all related to electric energy metering are , for instance, maximum demand indicator, time switches , ripple control or radio receivers, etc.

MS 1546-4-6:2020 METALLIC CABLES AND OTHER PASSIVE COMPONENTS TEST METHODS (First Edition) (16p) V

Part 4-6: Electromagnetic compatibility (EMC) – Surface transfer impedance – Line injection method

This part of MS 1546 determines the screening effectiveness of a shielded metallic communication cable by applying a well-defined current and voltage to the screen of the cable and measuring the induced voltage in order to determine the surface transfer impedance.

MS 1547-11:2020 ELECTRICITY METERING EQUIPMENT (AC) – GENERAL REQUIREMENTS, TESTS AND TEST CONDITIONS (First edition) (33p) M

Part 11: Metering equipment

This part of MS 1547 covers types tests for electricity metering equipment for indoor and outdoor application and applies to newly manufactured equipment designed to measure the electrical energy on 50Hz or Hz networks, with a voltage up to 600V.

MS 1548:2020 HAND SANITIZER (ALCOHOL – BASED) – SPECIFICATION (First Edition) (13 p) M

This Malawi standard specifies the requirements and methods of sampling and test for alcohol-based hand sanitizer (hand-rub).This standard does not cover non-alcohol-based hand sanitizers.

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MS 1560:2020 ANIMAL AND VEGETABLE FATS AND OILS – DETERMINATION OF MELTING POINT IN OPEN CAPILLARY TUBES (SLIP POINT) (First Edition) (7p) M

This standard specifies two methods for the determination of the melting point in open capillary tubes, commonly known as the slip point, of animal and vegetable fats and oils (referred to as fats hereinafter).

MS 1568:2021 ANIMAL AND VEGETABLE FATS AND OILS - DETERMINATION OF INSOLUBLE IMPURITIES CONTENT (First edition) (5p) V

This Malawi standard specifies a method for the determination of the insoluble impurities content of animal and vegetable fats and oils**.**

MS 1569:2020 MILK FAT PRODUCTS – DETERMINATION OF WATER CONTENT – KARL FISHER METHOD (First Edition) (6p) M

This Malawi standard specifies a method for the determination of the water content of milk fat products by the Karl Fisher (KF) method. The method is applicable to butter oil (anhydrous butter oil, anhydrous butter fat, and anhydrous milk fat) with a water content not exceeding 1.0% mass fraction.

MS 1570:2020 SWEEETENED CONDENSED MILK – DETERMINATION OF TOTAL SOLIDS CONTENT (REFERENCE METHOD) (First Edition) (4p) M

This Malawi standard specifies the reference method for the determination of the total solids content of sweetened condensed milk.

MS 1571:2020 BUTTER AND EDIBLE OILS EMULSION AND SPREADABLE FATS - DETERMINATION OF FAT CONTENT (REFERENCE METHOD) (First edition)(7p) V

This Malawi standard specifies a method for the determination of the fat content of butter, edible oil emulsions and spreadable fats (margarine, vegetables oil spreads, dairy spreads and blended spreads)

MS 1572-1:2020 BUTTER – DETERMINATION OF MOISTURE, NON-FAT SOLIDS AND FAT CONTENT

Part 1: Determination of moisture content (Reference method) (First Edition) (3) M

This Malawi standard specifies the reference method for the determination of moisture content of butter.

MS 1573:2020 EVAPORATED MILK AND SWEETENED CONDENSED MILK – DETERMINATION OF FAT CONTENT – GRAVIMETRIC METHOD (REFERENCE METHOD) (First Edition) (13p) M

This Malawi standard specifies the reference method for the determination of the fat content of all types of evaporated milk and sweetened condensed milk (liquid sweetened and unsweetened concentrated milk).

MS 1574:2020 SWEETENED CONDENSED MILK – DETERMINATION OF SUCROSE CONTENT – POLARIMETRIC METHOD (First Edition) (5p) M

This Malawi standard specifies a polarimetric method for the determination of sucrose in sweetened condensed milk.

MS 1577:2020 CHEESE AND PROCESSED CHEESE PRODUCTS – DETERMINATION OF FAT CONTENT – GRAVIMETRIC METH-OD (REFERENCE METHOD) (First Edition) (12p) M

This Malawi standard specifies the reference method for the determination of the fat content of all types of cheese and processed cheese products having lactose contents of below 5% (mass fraction) of non-fat solids**.**

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MS 1578:2021 ANIMAL AND VEGETABLE FATS AND OILS- DETERMINATION OF REFRACTIVE INDEX (First Edition) (5p) M

This Malawi standard specifies a method for the determination of the refractive index of animal and vegetable fats and oils. Milk and milk products (or fat coming from milk and milk products) are excluded from the scope of this standard.

MS 1579:2021 PRODUCTION AND HANDLING OF FRESH CASSAVA – CODE OF PRACTICE (First edition) (6p) M

This Malawi standard provides recommended practices for the production, storage, packaging and transportation of fresh cassava intended for human consumption.

MS 1587:2021 FOOD GRADE ASPARTAME – SPECIFICATION (**First Edition) (10p) M**

This Malawi standard specifies requirements, sampling and testing methods for food grade aspartame intended for direct human consumption and use in food products**.**

MS 1589:2021 FOOD GRADE SACCHARIN- SPECIFICATION (First Edition) (8p) M

This Malawi standard specifies requirements, sampling and test methods for food grade saccharin intended for use in food products.

MS 1590:2021 INSTANT COFFEE - DETERMINATION OF FREE AND TOTAL CARBOHYDRATE CONTENTS - METHOD USING HIGH-PERFORMANCE ANION-EXCHANGE CHROMATOGRAPHY (First edition) (6p) V

This Malawi standard specifies a method for the determination of free and total carbohydrate content in instant (soluble) coffee using high-performance anion-exchange chromatography. In particular, determines the content of individual monosaccharides, sucrose and mannitol.

MS 1591:2021 FOOD GRADE SUCRALOSE – SPECIFICATION (First Edition) (10p) M

This Malawi standard specifies requirements, sampling and testing methods for food grade sucralose intended for direct human consumption and use in food products**.**

MS 1600:2021 POTATOES – GUILDELINES FOR STORAGE IN ARTIFICIALLY VENTILATED STORES (First Edition) (4p) M

This Malawi standard establishes guidelines for the storage of potatoes, intended for human consumption or for processing, in artificially ventilated stores.

MS 1602:2021 POTATOES- STORAGE IN THE OPEN (IN CLAMPS) 9flrst Edition) (5p) M

This Malawi standard lays down guidelines relating to the technique of storing potatoes outdoors in clamps, to allow a quality suitable for consumption to be maintained.

MS 1603:2021 PRODUCTION AND HANDLING OF FRESH WARE POTATOES – CODE OF PRACTICE (First Edition) (6p) M

This Malawi standard provides recommended practices for the production, storage, packaging and transportation of fresh ware potatoes (*Solanum tuberosum* L).intended for human consumption.

MS 1604:2021 FRESH SWEETPOTATOES – SPECIFICATION (First Edition) (6p) M

This Malawi standard specifies the requirements and methods of sampling and fresh sweetpotatoes (*Ipomoea batatas* (L) Lam,) to be supplied fresh and either packaged or sold loose for human consumption.

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MS 1605:2021 SWEETPOTATO PUREE – SPECIFICATION (First Edition) (5p) M

This Malawi standard specifies the quality and safety requirements, methods of sampling and test for sweet potato puree obtained from sweet potato (*Impomea batatas*) intended for human consumption.

MS 1606:2021 DRIED SWEETPOTATO CHIPS – SPECIFICATION (First Edition) (4p) M

This Malawi standard specifies the requirements and test methods of sampling and test for dried sweet potato chips intended for human consumption.

MS 1608:2021 TEA- DETERMINATION OF CRUDE FIBRE CONTENT (First Edition) (6p) M

This Malawi Standard specifies a method for the determination of crude fibre content in tea.

MS 1609:2021 TEA - DETERMINATION OF WATER EXTRACT (First edition) (4p) V

This Malawi standard specifies a method for the determination of the water extract from tea.

MS 1610:2021 TOFFEE – SPECIFICATION (First edition) (4p) M

This Malawi standard specifies requirements, sampling and testing methods for toffee.

MS 1612:2021 TEA - DETERMINATION OF LOSS IN MASS AT 103℃ (First edition)(2p) M

This Malawi standard specifies a method for the determination of the loss in mass when tea is heated in air at 103 C

MS 1614:2021 GREEN COFFEE BEANS – SPECIFICATION (First Edition)(5p) M

This Malawi standard specifies requirements, methods of sampling and test for green coffee beans. This proposal applies to both Arabica (*Coffee Arabica*) and robusta (*Coffea canephora*) coffee beans.

MS 1616:2021 DEXTROSE- DETERMINATION OF LOSS IN MASS ON DRYING- VACUUM OVEN METHOD (First Edition) (2p) M

This Malawi standard specifies a vacuum oven method for the determination of the loss in mass on drying of dextrose. The method is applicable to anhydrous dextrose and dextrose monohydrate.

MS 1631:2021 FRESH SWEET CASSAVA – SPECIFICATION (First Edition) (7p) M

This Malawi standard applies to commercial sweet varieties of cassava roots grown from *Manihot esculenta Crantz,* of the *Euphorbiaceae* family, to be supplied fresh to the consumer, after preparation and packaging. Cassava for industrial processing is excluded.

MS 1632:2021 LABELLING OF FOOD OF ADDITIVES WHEN SOLD AS SUCH – GENERAL STANDARD (First Edition) (5p) M

This Malawi standard applies to the labelling of “food additives” sold as such whether by retail or other than by retail, including sales to caterers and food manufactures for the purpose of their businesses.

MS 1633:2022 FRUIT AND VEGETABLE PRODUCTS – DETERMINATION OF TITRATABLE ACIDITY (First Edition) (4p) M

This Malawi standard specifies two methods for the determination of titratable acidity of fruit and vegetable products

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MS 1635:2022 FRUIT AND VEGETABLE PRODUCTS – DETERMINATIONOF pH (First Edition) (3p) M

The Malawi standard specifies a potentiometric methods of measuring the pH of fruit and vegetable products.

MS 1636:2023 SPIRIT COOLER – SPECIFICATION (First Edition) (3p) M

This Malawi standard specifies the requirements, method of sampling and test for ready to drink spirit based alcoholic beverage.

MS 1640:2022 FRUIT AND VEGETABLE PRODUCTS – DETERMINATION OF SOLUBLE SOLIDS-REFRACTOMETRIC METHODS (First Edition) (7p) M

This Malawi standard specifies a refractometric method for the determination of the soluble solids in fruit vegetable products

MS 1641:2022 FRUIT AND VEGETABLE PRODUCTS – DETERMINATION OF WATER – UNSOLUBLE SOLIDS (First Edition) (3p) M

This Malawi standard specifies a method for the determination of the content of water-insoluble solids in the edible parts of fruit and vegetable products.

MS 1645:2022 MANGO CHUTNEY – SPECIFICATION (First edition) (5p) M

This Malawi standard specifies requirements and methods of test and sampling for mango chutney offered for direct consumption, including for catering purposes or repacking if required.

MS 1646:2021 BLANKETS – SPECIFICATION (First edition) (11p) M

This Malawi standard specifies requirements for thirteen types of woven blankets, twelve with a raised finish and one of a cellular type.

MS 1686-1:2021 TESTS FOR MECHANICAL AND PHYSICAL PROPERTIES OF AGGREGATES

Part 1: Determination of the resistance to wear (micro-Deval) (First Edition) (10p) M

This Malawi standard describes the reference method used for type testing and in case of dispute for determining the resistance to wear of coarse aggregates (main text) and aggregates for railway ballast. For other purposes, in particular factory production control, other methods may be used provided that an appropriate working relationship with the reference method has been established. This Malawi standard applies to natural, manufactured or recycled aggregates used in building or civil engineering.

MS 1686 – 3 2021 TESTS FOR MECHANICAL AND PHYSICAL PROPERTIES OF AGGREGATES

Part 3: Determination of loose bulk density and voids.(First edition)(10p) V

This Malawi standard specifies the test procedure for the determination of the loose bulk density of dry aggregate and the calculation of the voids. The test is applicable to natural and artificial aggregates up to a maximum size of 63mm.A method for the determination of the the apparent (bulk) density of filler in kerosene is given in **Annex A.**

MS 1686 – 4:2021 TESTS FOR MECHANICAL AND PHYSICAL PROPERTIES OF AGGREGATES

Part 4 Determination of the voids of dry compacted filler (First edition)(8p)V

This Malawi standard describes the reference method used for type testing and in case of dispute for determining the resistance to wear of coarse aggregates (main text) and aggregates for railway ballast. For other purposes, in particular factory production control, other methods may be used provided that an appropriate working relationship with the reference method has been established. The test is applicable to natural and manufactured fillers. Is used, for example to determine their bitumen carrying capacity**.**

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MS 1686-5:2021TESTS FOR MECHANICAL AND PHYSICAL PROPERTIES OF AGGREGATES (First edition) (8p) V

Part 5: Determination of water content by drying in a ventilated oven

This Malawi standard describes the reference method used for type testing and in case of dispute for determination of water content of aggregates by drying in a ventilated oven

MS 1686-6:2021TESTS FOR MECHANICAL AND PHYSICAL PROPERTIES OF AGGREGATES (First edition) (39p) V

Part 6: Determination of particle density of water absorption

This Malawi standard describes the reference method used for type testing and in case of dispute for determination of particle density and water absorption of normal weight and lightweight aggregates. Other methods may be used for other purposes, such as factory production control, provided that an appropriate relationship with the reference method has been established .

MS 1686-7:2021TESTS FOR MECHANICAL AND PHYSICAL PROPERTIES OF AGGREGATES (First edition) (8p) V

Part 7: Determination of the particle density of filler – Pyknometer method

This Malawi standard describes the reference method used for type testing and in case of dispute for determination of the practical density of filler by means of a pyknometer.

MS 1686 - 8:2021 TESTS FOR MECHANICAL AND PHYSICAL PROPERTIES OF AGGREGATES (First edition) (24p) M

Part 8: Determination of the polished stone value

This Malawi standard describes the reference method used for type testing and in case of dispute for determining the polished stone value (PSV) of a coarse aggregate used in road surfacing.

MS 1686-10:2021 TESTS FOR MECHANICAL AND PHYSICAL PROPERTIES OF AGGREGATES (First edition) (8p) V

Part 10: Determination of water suction height

This Malawi standard describes the reference method used for type testing and in case of dispute for determining the water sanction height of an aggregate in direct contact with a free water surface.

MS 1686-11:2021 TESTS FOR MECHANICAL AND PHYSICAL PROPERTIES OF AGGREGATES (First edition)(8p) V

Part 11 Determination of compressibility and confined compressive strength of lightweight aggregates

This Malawi standard describes the reference method used for type testing and in case of dispute for determining the compressibility and confined compressive strength of lightweight aggregates (LWA) .For other purposes, in particular factory production control, other methods may be used provided that an appropriate working relationship with the reference method has been established.

MS 1693:2022 ROASTED GROUNDNUTS (PEANUT) KERNELS – SPECIFICATION (First edition) (8p) M

This Malawi standard prescribes the requirements and the methods of sampling and test for roasted groundnuts (peanut) kernels intended for human consumption..

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MS 1694:2021 READY TO EAT EXTRUDED SNACKS- SPECIFICATION (First Edition) (8p) M

This Malawi standard prescribes the requirements and methods of sampling and test for ready to eat extruded snacks.

MS 1701-1:2021 CERAMIC TILES (First Edition) (7p) M

Part 1: Sampling and basis for acceptance
This part of **MS 1701** specifies rules for batching, sampling, inspection, and acceptance/rejection of ceramic tiles.

MS 1701-2:2021 CERAMIC TILES (First Edition) (12p) V

Part 2: Determination of dimensions and surface quality

This document specifies methods for determining the dimensional characteristics (length, width, and thickness, straightness of sides, rectangularity, surface flatness0 and surface quality of ceramic tiles.

MS 1701-3:2021 CERAMIC TIES (First Edition) (7p) V

Part 3: Determination of water absorption, apparent porosity, apparent relative density and bulk density

This document species a method for determining water absorption, apparent porosity, apparent relative density and bulk density of ceramic tiles. This method is applicable to classification of tiles and product specification.

MS 1701-4:2021 +CERAMIC TILES (First Edition) (8p) M

Part 4: Determination of modulus of rupture and braking strength

This document specifies a test method for the determining of rupture and breaking strength of all ceramic tiles.

MS 1701-5:2021 CERAMIC TILES (First Edition) (6p) V

Part 5: Determination of impact resistance by measurement of coefficient of restitution

This part of MS 1701 specifies a test method for determining the impact resistance of ceramic tiles by measuring the coefficient of restitution.

MS 1701-6:2021 CERAMIC TILES (First Edition) (4p) V

Part 6: Determination of resistance to deep abrasion for unglazed tiles

This part of MS 1701 specifies a test method for determining the resistance to deep abrasion of all unglazed ceramic tiles used for floor coverings.

MS 1701-7:2021 CERAMIC TILES (First Edition) (7p) V

Part 7: Determination of resistance to surface abrasion for glazed tiles

This part of MS 1701 specifies a method for determining the resistance to surface abrasion of all grazed ceramic tiles used for floor covering

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MS 1701-8:2021 CERAMIC TILES (First Edition) (2p) M

Part 8: Determination of linear thermal expansion

This part of Ms 1701 defines attest method for determining the coefficient of linear thermal expansion of ceramic tiles.

MS 1701-9:2021 CERAMIC TILES (First Edition) (3p) V

Part 9: Determination of resistance to thermal shock

This part of MS 1701 specifies a test method for determining the resistance to thermal shock of all ceramic tiles under normal conditions of use.

MS 1701-10:2021 CERAMIC TILES (First Edition) (3p) V

Part 10: Determination of moisture expansion

This part of MS 1701 specifies a method for determining the moisture expansion of ceramic titles.

MS 1701-11:2021CERAMIC TILES (First Edition) (3p) V

Part 11: Determination of crazing resistance for glazed tiles

This part of MS 1701 defines a test method for determining the crazing resistance of all glazed ceramic tiles except when the crazing is an inherent decorative feature of the products.

MS 1701-12:2012 CERAMIC TILES (First Edition) (3p) M

Part 12: Determination of frost resistance

This part of MS 1701 specifies a method for determining the frost resistance of all ceramic tiles intended for use in freezing conditions in the presence of water

MS 1701-13:2021 CERAMIC TILES (First Edition) (8p) V

Part 13: Determination of chemical resistance

This part of MS 1701 specifies a test method for determining the chemical resistance of ceramic tiles at room temperature. The method is applicable to all types of ceramic tiles

MS 1701-14:2021 CERAMIC TILES (First Edition) (7p) V

Part 14: Determination of resistance to stains

This part of MS 1701 specifies a test method for determining of the stains of the proper surface of ceramic tiles.

MS 1701-15:2021 CERAMIC TILES (First Edition) (3p) V

Part 15: Determination of lead and cadmium given off by glazed titles

This part of MS 1701 specifies a method for the determination of lead and Cadmium given off by the glazed of ceramic tiles.

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MS 1701-16:2021 CERAMIC TILES (First Edition) (5p) V

Part 16: Determination of slight color differences.

This part of MS 1701 specifies a test method that uses color measuring devices to quantify small color differences between solid color ceramic tiles, these tiles being manufactured to be uniform and comparable in color. This method allows you to define a value acceptable maximum which depends only on the fidelity of the color conformity and not on the nature of the color difference.

MS 1756:2022 OILSEEDS – DETERMINATION OF MOISTURE AND VOLATILE MATTER (First edition)(6p)V

This Malawi standard specifies a method for the determination of the moisture and volatile matter content of oilseeds**.**

MS 1757:2022 OIL SEEDS - MANUAL AND AUTOMATIC DISCONTINUOUS SAMPLING (First edition) (10p)V

This Malawi standard specifies the requirements for discontinuous sampling of oilseeds, using the manual or automatic method, for the purposes of assessing their quality condition

MS 1761:2022 ROASTED MACADAMIA KERNELS – SPECIFICATION (First edition) (4p) V

This Malawi standard specifies the requirements, methods of sampling and testing for roasted macadamia of varieties (cultivars) grown from *Macadamia integrifolia, Macadamia tetraphylla and Macadamia ternifolia,* and their hybrids, intended for human consumption.

MS 1770:2022 NICOTINE – CONTAINING, TOBACCO – FREE ORAL PRODUCTS – SPECIFICATION (First edition) (13p) M

This Malawi standard specifies requirements and methods of sampling and test for nicotine containing, tobacco-free oral products not intended for medicinal use.

MS 1779:2022 PULSES - DETERMINATION OF MOISTURE CONTENT - AIR OVEN METHOD (First edition) (6p) V

This Malawi standard specifies a routine reference method for the determination of moisture content of pulses. The procedure is applicable to chickpeans, lentils, peas, and all classes of beans with the exception of soybeans.

MS 1780:2022 OILSEEDS – DETERMINATION OF OIL CONTENT (REFERENCE METHOD) (First edition) (10p) V

This Malawi standard specifies a reference method for the determination of the hexane extract (or light petroleum extract), called “oil content” of oilseeds used as industrial raw materials. The procedure for sunflower seed is different from those for other seeds as it includes an additional moisture content determination after the seed has been ground to prepare the test sample.

MS 1782:2022 OIL SEEDS - REDUCTION AND LABORATORY SAMPLE TO TASTE SAMPLE (First edition)(2p) V

This Malawi standard specifies the procedure for obtaining a test sample from a laboratory sample of oilseeds.

MS 1785:2022 CEREALS – VOCABULARY (First edition) (24p) V

This Malawi standard defines terms relating to cereals

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MS 1786:2022 MILLED CEREAL PRODUCTS - DETERMINATION OF FAT ACIDITY.(First edition)(7p) V

This Malawi standard specifies a method for the determination of the fat acidity of milled cereal products. It is applicable to flours and semolinas obtained from wheat and durum wheat, and to pasta

MS 1793:2023 DESICCATED COCONUT – SPECIFICATION (First Edition) (5p) M

This Malawi standard specifies the requirements and methods of sampling and test for desiccated coconut for human consumption and does not cover salted, sugared, flavoured or roasted products

MS 1809:2023 ALUMINIUM CANS FOR BEVERAGES – SPECIFICATION (First Edition) (7p) m

This Malawi standard specifies requirements and test methods for aluminium cans used as primary pack for packaging of beverages

MS 1827:2022 CODE OF HYGIENIC PRACTICE FOR TREE NUTS (First edition) (4p) M

This Malawi standard covers the construction aspects and layout besides other requirements for a honey processing unit. .

MS 1826:2022 HONEY PROCESSING UNIT-TECHNICAL GUIDELINES (First Edition) (4p) M

This Malawi standard covers the construction aspects and layout besides other requirements for a honey processing unit.

MS 1829:2022 CODE OF PRACTICE FOR THE PREVENTION AND REDUCTION OF MYCOTOXIN CONTAMINATION IN CEREALS (First Edition) (16p)

This code for the prevention and reduction of mycotoxins in cereal grains and grain-derived foods and feeds recommends practices based on Good Agricultural Practices (GAP) and Good Manufacturing Practices (GMP) and are generally consistent with Hazard Analysis Critical Control Points (HACCP) principles which are incorporated into current food safety practices and certification schemes now in use in production, storage, handling, transportation, processing, distribution and trade. The implementation of HACCP principles will minimise mycotoxin contamination through applications of preventive control measures to the extent feasible, mainly during storage and processing of cereals

MS 1844-1:2023 WASHER-DISINFECTOR (First Edition) 63p) M

Part 1: General requirements, terms and definitions, and tests

This part of 1844 specifies general performance requirements for washer-disinfectors (WD) and their accessories that are intended to be used for cleaning and disinfection of re-usable devices and other articles used in the context of medical, dental , pharmaceutical and veterinary practice, It specifies performance requirements for cleaning and disinfection as well as for the accessories which can be required for validation, routine control and monitoring and re-validation, periodically and after essential repairs, are also specified.

MS 1844-2:2023 WASHER-DISINFECTOR (First edition)(9p) M

Part 2:Requirements and tests for washer-disinfectors employing thermal disinfection for surgical instruments, anaesthetic equipment, bowls, dishes, receivers ,utensils, glassware,etc

This Malawi standard specifies particular requirements for washer-disinfectors (WD) that are intended for use for the cleaning and thermal disinfection, in a single operating cycle, of re-usable medical devices such as surgical instruments, anaesthetic equipment, bowls, dishes and receivers, utensils and grassware.

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MS 1844-3:2023 WASHER-DISINFECTOR (First edition) (10p)M

Part 3: Requirements and tests for washer-disinfectors employing thermal disinfection for human wastes containers

This part of MS 1844 specifies particular requirements for washer-disinfectors (WD) that are intended to be used for emptying, flushing, cleaning and disinfection of containers used to hold human waste for for disposal by one operating cycle.

MS–ISO /IEC GUIDE 60:2004 CONFORMITY ASSESSMENT – CODE OF GOOD PRACTICE (Second Edition) (5 p) V

The Guide recommends good practices for all elements of conformity assessment, including normative documents, bodies, systems, schemes and results.

MS-ISO/TS 4949:2003 STEEL NAMES BASED ON LETTER SYMBOLS (8 p) V

This technical specification sets out rules for the designation of internationally standardized steel grades by means of symbolic letters and numbers to express application and principal characteristics (e.g. mechanical, physical, chemical) so as to provide an abbreviated identification of steel grades

MS-ISO 5725: ACCURACY (TRUENESS AND PRECISION) OF MEASUREMENTS METHODS AND RESULTS: GENERAL PRINCIPLES AND DEFINITIONS. (17p) M

The purpose of ISO 5725 is as follows:

a) To outline the general principles to be understood when assessing accuracy (trueness and precision) of measurement methods and results, and in applications, and to establish practical estimations of the various measures by experiment (ISO 5725-1).

b) To provide a basic method for estimating the two extreme measures of the precision of measurement methods by experiment (ISO 5725-2).

c) To provide a procedure for obtaining intermediate measures of precision, giving the circumstances in which they apply and methods for estimating them (ISO 5725-3).

d) To provide basic methods for the determination of the trueness of a measurement methods (ISO 5725-4).

e) To provide some alternatives to the basic methods, given in ISO 5725-2 and ISO 5725-4, for determining the precision and trueness of measurement methods for use under certain circumstances (ISO 5725-5).

f) To present some practical applications of these measures of trueness and precision (ISO 5725-6).

MS-ISO 9000:2015 QUALITY MANAGEMENT SYSTEMS – FUNDAMENTALS AND VOCABULARY (Fourth Edition) (51p) V

This international standard describes fundamentals of quality management systems, which form the subject of the MBS-ISO 9000 family, and defines related terms.

MS-ISO 9001:2015 QUALITY MANAGEMENT SYSTEMS – REQUIREMENTS (Fifth Edition) (29 p) V

This international standard specifies requirements for a quality management system where an organization:

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a) needs to demonstrate its ability to consistently provide product that meets customer and applicable regulatory requirements, and

b) aims to enhance customer satisfaction through the effective application of the system, including processes for continued improvement of the system and assurance or conformity to customer and applicable regulatory requirements

MS–ISO 9004:2000 QUALITY MANAGEMENT SYSTEMS. - GUIDELINES FOR PERFOMANCE IMPROVEMENTS (Second Edition) (56p) V

This international standard provides guidelines beyond the requirements given in MS-ISO 9001 in order to consider both the effectiveness and efficiency of a quality management system, and consequently the potential for improvement of the performance of an organization. When compared to MS-ISO 9001, the objectives of customer satisfaction and product qualities are extended to include the satisfaction of interested parties and the performance of the organization.

MS-ISO 10002:2004 QUALITY MANAGEMENT SYSTEMS – CUSTOMER SATISFACTION – GUIDELINES FOR COMPLAINTS HANDLING IN ORGANIZATION (23p) V

This International Standard provides guidance on the process of complaints handling related to products within an organization, including planning, design, operation, maintenance and improvement. The complaints handling process described is suitable for use as one of the processes of an overall quality management system. This International Standard is not applicable to disputes referred for resolution outside the organization or for employment-related disputes.

MS-ISO 10005:2018 QUALITY MANAGEMENT SYSTEMS – GUIDELINES FOR QUALITY PLANS (Third Edition) (27p) V

This document gives guidelines for the establishment, reviewing, accepting, applying and revising quality plans. It is applicable whether or not the organization has a management system in conformity with ISO 9001.

MS-ISO 10006:2017 QUALITY MANAGEMENT SYSTEMS – GUIDELINES FOR QUALITY MANAGEMENT IN PROJECTS (Third Edition) (34p) V

This document gives guidance on the application of quality management in projects.

MS–ISO 10012:2003 MEASUREMENT MANAGEMENT SYSTEMS – REQUIREMENTS FOR MEASUREMENT PROCESSES AND MEASURING EQUIPMENT (First Edition)(19p) M

This International Standard specifies generic requirements and provides guidance for the management of measurement processes and metrological confirmation of measuring equipment used to support and demonstrate compliance with metrological requirements. It specifies the quality management requirements of a measurement management system that can be used by an organization performing measurements as part of the overall management system, and to ensure metrological requirements are met.

MS-ISO 10013:2021 GUIDELINES FOR QUALITY MANAGEMENT SYSTEMS DOCUMENTATION (14 p) V

This document gives guidance for the development and maintenance of the documented information necessary to support an effective quality management system, tailored to the specific needs of the organization.

MS-ISO 10015:1999 QUALITY MANAGEMENT – GUIDELINES FOR TRAINING (14 p) V

These guidelines cover the development, implementation, maintenance, and improvement of strategies and systems for training that affect the quality of the products supplied by an organization.

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MS-ISO 10144:2008 CERTIFICATION SCHEME FOR STEEL BARS AND WIRES FOR THE REIFORCEMENT OF CONRETE STRUCTURES (5p) V

This International Standard specifies rules for a certification scheme for continuous production of steel bars and wires for ordinary reinforcement of concrete structures in order to verify the conformity with requirements specified in product standards such as ISO 6935-2

MS-ISO 10544:1992 COLD REDUCED STEEL WIRE FOR THE REINFORCEMENT OF CONCRETE AND THE MANUFACTURE OF WELDED FABRIC. (10 p) M

This international standard specifies technical requirements for cold-reduced steel wire designed for the reinforcement of concrete or for use in welded fabric.

MS-ISO 14001:2015 ENVIRONMENTAL MANAGEMENT SYSTEMS – REQUIREMENTS WITH GUIDANCE FOR USE (35 p) V

This International Standard specifies requirements for an environmental management system to enable an organization to develop and implement a policy and objectives which take into account requirements and other requirements to which the organization subscribes, and information about significant environmental aspects. It applies to those environmental aspects that the organization identifies as those which it can control and those which it can influence. It does not itself state specific environmental performance criteria.

MS-ISO 14004:2004 ENVIRONMENTAL MANAGEMENT SYSTEMS – GENERAL GUIDELINES ON PRINCIPLES, SYSTEMS AND SUPPORT TECHNIQUES (39p) V

This Malawi Standard provides guidance on the establishment, implementation, maintenance and improvement of an environmental management system and its coordination with other management systems.

MS-ISO 14015:2001 ENVIRONMENTAL MANAGEMENT SYSTEMS – GENERAL GUIDELINES ON PRINCIPLES SYSTEM AND SUPPORT TECHNIQUES (19p) V

This Malawi Standard provides guidance on how to conduct an EASO through a systematic process of identifying environmental aspects and environmental issues and determining, if appropriate, their business consequences.

MS-ISO 14020:2000 ENVIRONMENTAL LABELS AND DECLARATIONS – GENERAL PRINCIPLES (5p) V

The standard establishes guiding principles for the development and use of environmental labels and declarations. It is intended that other applicable standards in the MS-ISO 14020 series can be used in conjunction with this standard.

MS-ISO 14021:2014 ENVIRONMENTAL LABELS AND DECLARATIONS – SELF DECLARED ENVIRONMENTAL CLAIMS (TYPE II ENVIRONMENTAL LABELLING) (First Edition) (23p) V

This international standard specifies requirements for self-declared environmental claims, including statements, symbols and graphics, regarding products; It further describes selected terms commonly used in environmental claims and gives qualifications for their use. This International standard also describes a general evaluation and verification methodology for self-declared environmental claims and specific evaluation and verification methods for the selected claims in this standard.

MS-ISO 14024:2014 ENVIRONMENTAL LABELS AND DECLARATIONS –TYPE I ENVIRONMENTAL LABELLING-PRINCIPLES AND PROCEDURES (12p) V

This International Standard establishes the principles and procedures for developing Type I environmental labelling programmes, including the selection of product categories, product environmental criteria and product function characteristics; and for assessing and demonstrating compliance. This International Standard also establishes the certification procedures for awarding the label.

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MS-ISO 14025:2014 ENVIRONMENTAL LABELS AND DECLARATIONS – TYPE LLL ENVIRONMENTAL LABELLING – PRINCIPLES AND PROCEDURES (First Edition) (25p) M

This International Standard established the principles and specifies the procedures for developing Type lll environmental declaration programmes and Type lll environmental declaration programmes and Type lll environmental declarations**.**

MS-ISO 14031:1999 ENVIRONMENTAL MANAGEMENT ENVIRONMENTAL PERFORMANCE EVALUATION – GUIDELINES (32p) V

This Malawi Standard gives guidance on the design and use of environmental performance evaluation within an organization. It is applicable to all organizations, regardless of type, size, location and complexity.

MS-ISO 14032:1999 ENVIRONMENTAL MANAGEMENT – EXAMPLES OF ENVIRONMENTAL PERFORMANCE EVALUATION (EPE) (92p) V

This technical report provides examples of EPE that represent a range of applications from simple to elaborate. They also represent a range of organizations (e.g., manufacturing and service companies; nongovernmental organizations; government agencies; small, medium and large enterprises; organizations with and without certified environmental management systems) and geographic locations.

MS-ISO 14040:1997 ENVIRONMENTAL MANAGEMENT – LIFE CYCLE ASSESSMENT PRINCIPLES AND FRAMEWORK (12p) V

This Malawi standard specifies the general framework, principles and requirements for conducting and reporting life cycle assessment studies. This Standard does not describe the life cycle assessment technique in detail.

MS-ISO 14041:1998 ENVIRONMENTAL MANAGEMENT – LIFE CYCLE ASSESSMENT – GOAL AND SCOPE DEFINITION AND INVENTORY ANALYSIS (22p) V

This standard in addition to MS-ISO 14040 specifies the requirements and the procedures necessary for the compilation and preparation of the definition of goal and scope for a Life Cycle Assessment (LCA), and for performing, interpreting and reporting a Life Cycle Inventory analysis (LCI).

MS-ISO 14042:2000 ENVIRONMENTAL MANAGEMENT – LIFE CYCLE ASSESSMENT – LIFE CYCLE IMPACT ASSESSMENT (16p) V

This standard describes and gives guidance on a general framework for the life cycle impact assessment (LCIA) phase of life cycle assessment (LCA), and the key features and inherent limitations of LCIA. It specifies requirements for conducting the LCIA phase and the relationship of LCIA to the other LCA phases.

MS-ISO 14043:2000 ENVIRONMENTAL MANAGEMENT – LIFE CYCLE ASSESSMENT INTO CYCLE INTERPRETATION (18p) V

This standard provides requirements and recommendations for conducting the life cycle interpretation in (LCA) or (LCI) studies. It does not describe specific methodologies for the life cycle interpretation phase of LCA and LCI studies.

MS-ISO 14044:2006 ENVIRONMENTAL MANAGEMENT – LIFE CYCLE ASSESSMENT REQUIREMENT AND GUIDELINES (46p) V

This standard specifies the requirements and the procedures necessary for life cycle assessment (LCA).

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MS-ISO14048:2000 ENVIRONMENTAL MANAGEMENT – LIFE CYCLE IMPACT ASSESSMENT – DATA DOCUMENTATION FORMAT (41 p) V

This technical specification provides the requirements and a structure for a data documentation format, to be used for transparent and unambiguous documentation and exchange of Life Cycle Assessment (LCA) and Life Cycle Inventory (LCI) data, thus permitting consistent documentation of data, reporting of data collection, data calculation and data quality, by specifying and structuring relevant information.

MS-ISO 14050:2005 ENVIRONMENTAL MANAGEMENT VOCABULARY (29 p) V

This standard contains definitions of fundamental concepts related to environmental management, published in the MS-ISO 14000 series of Malawi Standard.

MS–ISO 14055-1:2017 ENVIRONMENTAL MANAGEMENT – GUIDELINES FOR ESTABLISHING GOOD PRACTICES FOR COMBATTING LAND DEGRADATION AND DESERTIFICATION PART 1 : GOOD PRACTICES FRAMEWORK (First Edition) (31p) M

This document provides guidelines for establishing good practices in land management to prevent or minimize land degradation and desertification. It does not include management of coastal wetlands.

MS-ISO 15161:2001 GUIDELINES ON THE APPLICATION OF MS-ISO 9001:2000 FOR THE FOOD AND DRINK INDUSTRY (35 p) V

Gives guidance to organizations in applying the requirements of MS-ISO 9001 during the development and implementation of a quality management system in the food and drink industry. It gives information on the possible interactions of the ISO 9000 series of standards and the hazard analysis and critical control point (HACCP) system for food safety requirement.

MS-ISO 15189:2022 MEDICAL LABORATORIES – REQUIRMENTS FOR QUALITY AND COMPETENCE (39 p) V

This International Standard specifies requirements for quality and competence particular to medical laboratories.

MS-ISO/IEC 17000:2004 CONFORMITY ASSESSMENT- VOCABULARY AND GENERAL PRINCIPLES (First Edition) (14p) M

This International standard specifies general terms and definitions relating to conformity assessment, including the accreditation of conformity assessment bodies, and to the use of conformity assessment to facilitate trade. A description of the functional approach to conformity assessment is included in Annex a, as a further aid to understanding among users of conformity assessment, conformity assessment bodies and their accreditation bodies, in both voluntary and regulatory environments.

MS-ISO/IEC 17011:2004 CONFORMITY ASSESSMENT – GENERAL REQUIREMENTS FOR ACCREDITATION BODIES ACCREDITING CONFORMITY ASSESSMENT BODIES (First Edition) (21p) M

This International standard specifies general requirements for accreditation bodies assessing and accrediting conformity assessment bodies (CABs) .It is also appropriate as a requirements document for the peer evaluation process for mutual recognition arrangements between accreditation bodies.

MS- ISO/IEC 17020:2014 CONFORMITY ASSESSMENT - REQUIREMENTS FOR THE OPERATION OF VARIOUS TYPES OF BODIES PERFORMING INSPECTION (18p) V

This International standard contains requirements for the competence of bodies performing inspection and for the impartiality and consistency of their inspection activities.

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MS-ISO/IEC 17021-1-:2015 CONFORMITY ASSESSMENT - REQUIREMENTS FOR BODIES PROVIDING AUDIT AND CERTIFICATION OF MANAGEMENT SYSTEMS (48 p) V

This international standard contains principles and requirements for the competence, consistency and impartiality of the audit and certification of all types of management systems.

MS–ISO /IEC 17021-2:2016 CONFORMITY ASSESSMENT - REQUIREMENTS FOR BODIES FOR PROVIDING AUDIT AND CERTIFICATION OF MANAGEMENT SYSTEMS PART 2: COMPETENCE REQUIREMENTS FOR AUDITING AND CERTIFICATION OF ENVIRONMENTAL MANAGEMENT SYSTEMS (First Edition) (11p) M

This document specifies additional competence requirements for personnel involved in the audit and certification process for environmental management systems (EMS) and complements the existing requirements of ISO/ IEC 17021-1.

MS-ISO/IEC 17021-10-:2018 CONFORMITY ASSESSMENT.-.REQUIREMENTS FOR BODIES PROVIDING AUDIT AND CERTIFICATION OF MANAGEMENT SYSTEMS (Second Edition) (9) V

Part 10: Competency requirements for auditing and certification of occupational health and safety management systems

This document specifies additional competence requirements for personnel involved in the audit and certification process for an occupational health and safety (OH&S) management systems and complements the existing requirements of ISO/IEC 17021-1

MS-ISO 17025:2017 GENERAL REQUIREMENTS FOR THE COMPETENCE OF TESTING AND CALIBRATION LABORATORIES (Third edition) (30p) V

This document specifies the general requirements for the competence, impartiality and consistent operation of laboratories.

This document is applicable to all organizations performing laboratory activities, regardless of the number of personnel.

MS-ISO/IEC 17065:2013 CONFORMITY ASSESSMENT – REQUIREMENTS FOR BODIES CERTIFYING PRODUCTS, PROCESSES AND SERVICES (First Edition) (27p) V

This international standard contains requirements for the competence, consistent operation and impartiality of product, process and service certification bodies. Certification bodies operating to this international standard need not offer all types of products, processes and services certification.

MS-ISO 19011:2018 GUIDELINES FOR AUDITING MANAGEMENT SYSTEMS (Third Edition) (49p) V

This international standard provides guidance on auditing management systems, including the principles of auditing, managing an audit programme and conducting management system audits, as well as guidance on the evaluation of individuals involved in the audit process, including the person managing the audit programme, auditors and audit team.

MS-ISO 21569:2005 FOODSTUFFS - METHODS OF ANALYSIS FOR THE DETECTION OF GENETICALLY MODIFIED ORGANISMS AND DERIVED PRODUCTS – QUALITATIVE NUCLEIC ACID BASED METHODS (69p) V

This International Standard describes the procedure to qualitatively detect genetic modified organisms (GMOs) and derived products by analyzing the nucleic acids extracted from the sample under study. The main focus is on polymerase chain reaction (PCR) based amplification methods.

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MS-ISO 21570:2005 FOODSTUFF – METHODS OF ANALYSIS FOR THE DETECTION OF GENETICALLY MODIFIED ORGANISMS AND DERIVED PRODUCTS – QUANTITATIVE NUCLEIC ACID BASED METHODS (103p) V

This international standard provides the overall framework of quantitative methods detection of genetically modified organisms (GMOs) in foodstuffs, using the polymerase chain reaction (PCR). It defines general requirements for the specific amplification of DNA target sequences in order to quantify the relative GMO-derived DNA content and to confirm the identity of the amplified DNA sequence.

MS-ISO 21571:2005 FOODSTUFFS-METHODS OF ANALYSIS FOR THE DETECTION OF GENETICALLY MODIFIED ORGANISMS AND DERIVED PRODUCTS – NUCLEIC ACID EXTRACTION (43p) V

This international standard provides general requirements and specific methods for DNA extraction/purification and quantification. This International Standard has been established for food matrices, but could also be applicable to other matrices, such as grains and feed.

MS-ISO 21572:2004 FOODSTUFF – METHODS OF ANALYSIS FOR THE DETECTION OF GENETICALLY MODIFIED ORGANISMS AND DERIVED PRODUCTS – PROTEIN BASED METHODS (21p) V

This standard provides general guidelines and performance criteria for methods for the detection and/or quantification of special proteins derived from genetically modified (GM) plant material in a specified matrix.

MS-ISO 22000:2018 FOOD SAFETY MANAGEMENT SYSTEMS – REQUIREMENTS FOR ANY ORGANIZATION IN THE FOOD CHAIN (Second Edition) (37p) V

The document specifies requirements for a Food Safety Management System (FSMS) to enable an organization that is directly or indirectly involved in food chain.

MS-ISO /TS 22002-1:2009 PREREQISITES PROGRAMMES ON FOOD SAFETY

Part 1: Food manufacturing (19p) V

This technical specification specifies requirements for establishing, implementing and maintain prerequisite programmes (PRP) to assist in controlling food safety hazards.

MS-ISO/TS 22002-2:2013 PREREQUISITES PROGRAMMES ON FOOD SAFETY: PART 2: CATERING (18p) V

This part of ISO/TS 22002 specifies the requirements for the design, implementation, and maintenance of prerequisite programmes (PRPs) to assist in controlling food safety hazards in catering.

MS-ISO 22002-3:2013 PREREQUISITE PROGRAMMES ON FOOD SAFETY

Part 3: Farming (22 p) V

This part of ISO 22002 specifies requirements and guidelines for the design, implementation, and documentation of prerequisite programmes (PRPS) that maintain a hygienic environment and assist in controlling food safety hazard in food chain**.**

MS-ISO 22002-4:2014 PREREQUISITE PROGRAMMES ON FOOD SAFETY

Part 4: Food packaging manufacturing (17 p) V

This Technical Specification specifies requirements for the establishing, implementing and maintaining prerequisite programmes (PRPs) to assist in controlling food safety hazards in the manufacture food packaging.

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MS-ISO 22003:2014 FOOD SAFETY MANAGEMENT SYSTEMS- REQUIREMENTS FOR BODIES PROVIDING AUDIT AND CERTIFICATION OF FOOD SAFETY MANAGEMENT SYSTEMS (16p) V

This Technical Specification defines the rules applicable for the audit and certification of a food safety management system (FSMS) complying with the requirements given in ISO 22000 (or other sets of specified FSMS requirements), and provides the necessary information and confidence to customers about the way certification of their suppliers has been granted.

MS-ISO/TS 22004:2005 FOOD SAFETY MANAGEMENT SYSTEMS – GUIDANCE ON THE APPLICATION OF ISO 22000:2005 (13p) V

This technical specification provides generic guidance that can be applied in the use of ISO 22000.

MS-ISO 24276:2005 FOODSTUFF – METHODS OF ANALYSIS FOR THE DETECTION OF GENETICALLY MODIFIED ORGANISMS AND DERIVED PRODUCTS – GENERAL REQUIREMENTS AND DEFINITION (16p) V

This international standard specifies how to use the standards for sampling strategies (EN/TS21568), Nucleic acid extraction (ISO 21571), qualitative nucleic acid analysis (ISO 21569), quantitative nucleic acid analysis (21570) and protein-based methods (ISO 21572), and explains their relationship in the analysis of genetically modified organisms in foodstuffs.

MS-ISO 26000:2011 GUIDANCE ON SOCIAL RESPONSIBILITY (106 p) V

This International Standard provides guidance to all types of organizations, regardless of their size or location

MS-ISO 31000:2018 RISK MANAGEMENT- GUIDELINES (Second Edition) (16p) V

This document provides guidelines on managing risk faced by organizations. The application of these guidelines ca be customized to any organization and its context.

MS-ISO 45001:2018 OCCUPATIONAL HEALTH AND SAFETY MANAGEMENT SYSTEMS-REQUIREMENTS WITH GUIDANCE FOR USE (41p) V

This document specifies requirements for an occupational health and safety (OH&S) management systems, and gives guidance for its use, to enable organizations to provide safe and healthy workplaces by preventing work-related injury and ill health, as well as by proactively improving its OH&S performance

MS–ISO 50003:2014 ENERGY MANAGEMENT SYSTEMS – REQUIREMENTS FOR BODIES PROVIDING AUDIT AND CERTIFICATION OF ENERGY MANAGEMENT SYSTEMS (First Edition) (18p) M

This International standard specifies requirements for competence, consistency and impartiality in the auditing and certification of energy management systems (EMS) for bodies providing these services.

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LIST OF IEC STANDARDS ADOPTED BY MALAWI

"The MBS will link you to the IEC if you need to purchase a copy"

MS-IEC 60044-1:2003 **INSTRUMENT TRANSFORMERS –PART 1: CURRENT TRANSFORMERS (M)**

Applies to newly manufactured current transformers for use with electrical measuring instruments and electrical protective devices at frequencies from 15Hz to 100 Hz. Applies basically to transformers with separate windings, but also to autotransformers.

MS-IEC 60044-2:12003 **INSTRUMENT TRANSFORMERS – PART 2: INDUCTIVE VOLTAGE TRANSFORMERS (M)**

Applies to new inductive voltage transformers for use with electrical measuring instruments and electrical protective devices at frequencies from 15 to 100 Hz. This standard relates basically to transformers with separate windings, but also to autotransformers. It replaces IEC 60186 (1987) plus amendments 1 and 2 only for inductive voltage transformers. IEC 60186 remains in force for capacitive voltage transformers

MS-IEC60050-826 **INTERNATIONAL ELECTROTECHNICAL VOCABULARY – CHAPTER 826: ELECTRICAL INSTALLATION (Second edition) V**

This part of IEC 60050 with electrical installations such as those of residential, industrial or commercial premises. It doesn't cover systems for distribution of energy to the public or power generation and transmission for such systems.

MS-IEC60050-851:1991 **INTERNATIONAL ELECTROTECHNICAL VOCABULARY – CHAPTER 851: ELECTRIC WELDING (First edition V**

This International standard forms chapter 851 of the International Electrotechnical Vocabulary (IEV).

MS-IEC 60055-2:1981 **PAPER-INSULATED METAL-SHEATHED CABLES FOR RATED VOLTAGES UP TO 18/30 KV (WITH COPPER OR ALUMINIUM CONDUCTORS AND EXCLUDING GAS-PRESSURE AND OIL-FILLED CABLES) – PART 2: GENERAL AND CONSTRUCTION REQUIREMENTS (M)**

Specifies general and construction requirements for impregnated paper-insulated load-sheathed cables with copper or aluminium conductors from 0.6/1 kV. Tables for 21 different types cable construction are given.
.

MS-IEC 60061-DB-1:2006 **LAMP CAPS AND HOLDERS TOGETHER WITH GAUGES FOR THE CONTROL OF INTERCHANGEABILITY AND SAFETY - PART 1: LAMP CAPS (M)**

Consolidated edition incorporating the sheets of the third edition (1969) plus supplements A, B, C, D, E, F, G, H, I, J, K, L M, N, P, Q, R, S, T and U valid on 19996-12-31.

MS-IEC 60061-DB-2:2006 **LAMP CAPS AND HOLDERS TOGETHER WITH GAUGES FOR THE CONTROL OF INTERCHANGEABILITY AND SAFETY - PART 2: LAMP HOLDERS (M)**

Specifies recommendations of the IEC in regard to lamp caps and holders in general use, together with relevant gauges, with the object of securing international interchangeability.

MS-IEC 60061-DB-3:2006 **LAMP CAPS AND HOLDERS TOGETHER WITH GAUGES FOR THE CONTROL OF INTERCHANGEABILITY AND SAFETY – PART 3: GAUGES**

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MS-IEC 60064:2005 **TUNGSTEN FILAMENT LAMPS FOR DOMESTIC AND SIMILAR GENERAL LIGHTING PURPOSES - PERFORMANCE REQUIREMENTS (M)**

Applies to tungsten filament incandescent lamps for general lighting services (GLS) which comply with the safety requirements in IEC 60432-1.1.

MS-IEC 60076-SER-1:2000 **POWER TRANSFORMERS – PART 1: GENERAL (Second edition)(M)**

This part of international standard IEC 60076 applies to three-phase and single-phase power transformers (including auto-transformers) with the exception of certain categories of small and special transformers such as:

- Single-phase transformers with rated power less than 1 kVA and three-phase transformers less than 5 kVA.;
- Instrument transformers;
- Transformers for static convertors;
- Traction transformers mounted on rolling rocks;
- Starting transformers;
- Testing transformers;
- Welding transformers.

MS-IEC 60076-SER-4:2002 **POWER TRANSFORMERS - PART 4: GUIDE TO THE LIGHTNING IMPULSE AND SWITCHING IMPULSE TESTING – POWER TRANSFORMERS AND REACTORS (First edition) (M)**

This part of IEC 60076 gives guidance and explanatory comments on the existing procedure for lightning and switching impulse testing of power transformers to supplement the requirements of IEC 60076-3 it is also applicable to the testing of reactors (see IEC 60289), modifications to power transformer procedures being indicated where required.

MS-IEC 60076-SER-5:2000 **POWER TRANSFORMERS - PART 5: ABILITY TO WITHSTAND SHORT CIRCUIT (M)**

Specifies the design and construction of transformers to withstand the thermal and dynamic effects of external short circuits under specified conditions. Includes tests to demonstrate the ability to withstand short circuit. Applies to transformers as defined in the scope of IEC 60076-1

MS-IEC 60076-SER-11:2004 **POWER TRANSFORMERS – PART 11: DRY – TYPE TRANSFORMERS (M)**

The object of this technical report is to give general information about the systems of plugs and socket-outlets for household and similar purposes which are used in the IEC countries. The report only contains national Systems which are commonly used in homes and offices. It is therefore limited to systems for a.c. with a rated voltage above 50 V but not exceeding 440 V, intended for household and similar purposes, either indoors or outdoors.

MS-IEC 60083:2006 **PLUGS AND SOCKET – OUTLETS FOR DOMESTIC AND SIMILAR GENERAL USE STANDARDIZED IN MEMBER COUNTRIES OF IEC (M)**

The object of this technical report is to give general information about the systems of plugs and socket-outlets for housholds and similar purposes which are used in the IEC countries. The report only contains National System which ate commonly used in homes and offices. It is therefore limited to systems for a.c. with a rated voltage above 50 V but not exceeding 440 V, intended for household and similar purposes, either indoors or outdoors

MS-IEC 60086-1:2000 **PRIMARY BATTERIES – PART 1: GENERAL**

Standardizes primary batteries based on standardized electro-chemical systems, it specifies the physical dimensions, the discharge test conditions, and the discharge performance requirements.

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MS-IEC 60086-2:2001 PRIMARY BATTERIES - PART 2: PHYSICAL AND ELECTRICAL SPECIFICATIONS (M)

Applicable to primary batteries based on standardized electro-chemical systems, it specifies the physical dimensions. The discharge test conditions, and the discharge performance requirements.

MS-IEC 60086-3:1995 PRIMARY BATTERIES – PART 3: WATCH BATTERIES (M)

Specifies dimensions, designation, methods of tests and requirements for primary batteries for watches. In several cases, a menu of test methods is given. When presenting battery electrical characteristics and/or performance data, the manufacturer specifies the test method used

MS-IEC 60086-4:2000 PRIMARY BATTERIES – PART 4: SAFETY OF LITHIUM BATTERIES (M)

Specifies tests and requirements for primary lithium batteries to ensure their safe operation under intended use or reasonably foreseeable misuse.

MS-IEC 60086-5:2005 PRIMARY BATTERIES – PART 5: SAFETY OF BATTERIES WITH AQUEOUS ELECTROLYTE (M)

Specifies tests and requirements for primary batteries with aqueous electrolyte to ensure their safe operation under normal use and reasonably foreseeable misuse.

MS-IEC 60095-1:2000 LEAD-ACID STARTER BATTERIES – PART 1: GENERAL REQUIREMENTS AND METHODS OF TEST (M)

This part of IEC 60095 is applicable to lead-acid batteries with a nominal voltage of 12 V, used primarily as a power source for the starting and igniting of internal combustion engines, lighting and for auxiliary equipment or internal combustion engine vehicles. These bateries are commonly called "starter batteries"

MS-IEC 60095-2:1984 LEAD-ACID STARTER BATTERIES – PART 2: DIMENSIONS OF BATTERIES AND DIMENSIONS AND MARKING OF TERMINAL (M)

Applies to lead-acid batteries used for starting, lighting and ignition of passenger automobiles and light commercial vehicles with a nominal voltage of 12 V fastened to the vehicles by means of ledges on the long sides of the battery case, two alternative admissible means are specified in Section Three, Specifies:

- the main dimensions of starter batteries of four standard series;
- the location of the positive and negative terminals with respect to
- the fastening system;
- the dimensions of tapered terminal of starter batteries;

MS-IEC 60095-4:1989 LEAD-ACID STARTER BATTERIES – PART 4: DIMENSIONS OF BATTERIES FOR HEAVY TRUCKS (M)

Applies to lead-acid batteries for starting, lighting and igniting of heavy trucks.

MS-IEC 60096-0-1:2000 RADIO-FREQUENCY CABLES. PART 0-1: GUIDE TO THE DESIGN OF DETAIL SPECIFICATION – COAXIAL CABLES (M)

Gives recommendations for design parameters, including nominal characteristic impedances and diameter over dielectric, and guidance for the design of radio-frequency coaxial cables with braid, metallic tapes or tubular outer conductors. This edition supersedes the first edition of IEC 60096-0 (1970).

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MS-IEC 60096-1:1986 **RADIO-FREQUENCY CABLES. PART 1: GENERAL REQUIREMENTS AND MEASURING METHODS (M)**

Relates to flexible or semi-felxible radio-requency cables of coaxial or twin conductor types designed for use in radio-communication equipment and in electronic devices employing similar techniques. The dielectric may be of solid air-spaced, or semi-air-spaced types, consisting of a thermoplastic of low-loss polymeric resin, a thermosetting compound, or a mineral material. Establishes uniform requirements for judging the electrical, climatic and mechanical properties of radio-frequency cables and describes test methods
.

MS-IEC 60096-2:1961 **RADIO-FREQUENCY CABLES. PART 2: RELEVANT CABLE SPECIFICATIONS (CONSOLIDATED EDITION) (M)**

Consolidated reprint consisting of IEC 60096-2 (1961) and supplements 60096-2A (1965), 60096-2B (1966), 60096-2C (1976) and 60096D (1986).

MS-IEC 60096-3:1982 **RADIO-FREQUENCY CABLES. PART 3: GENERAL REQUIREMENTS AND TESTS FOR SINGLE-UNIT COAXIAL CABLES FOR USE IN CABLED DISTRIBUTION SYSTEMS (M)**

Specifies the general requirements and tests applicable to single-unit coaxial cables for use in cabled distribution systems.

MS-IEC 60096-4-1:1990 **RADIO-FREQUENCY CABLES. PART 4: SPECIFICATION FOR SUPERSCREENED CABLES – SECTION ONE: GENERAL REQUIREMENTS AND TEST METHODS (M)**

Covers the requirements of superscreened cables and is divided into two sections. This section (Section 1) specifies general requirements and test methods.

MS-IEC 60155:1993 **GLOW-STARTERS FOR FLUORESCENT LAMPS (M)**

Specifies interchangeable starters used with pre-heat tubular fluorescent lamps and should be used in conjunction with corresponding publications for fluoroscent lamps and their ballasts.

MS-IEC 60167:1964 **METHOD OF TEST FOR THE DETERMINATION OF THE INSULATION RESISTANCE OF SOLID INSULATING MATERIAL (First edition) V**

These test methods cover procedures for the determination of insulation resistance without discrimination between the volume and surface resistances involved. Because the test specimens are simply and easily prepared, these methods are particularly useful for rapidly determining values which will give a general indication of quality when great accuracy is not required.

MS-IEC 60173:1964 **COLOURS OF THE CORES OF FLEXIBLE CABLES AND CORDS (M)**

Lays down a standard colour identification for the earthing core in flexible cables and cords with not more than five cores.

MS-IEC 60189-1:1989 **LOW-FREQUENCY CABLES AND WIRES WITH PVC INSULATION AND PVC SHEATH. PART 1: GENERAL TEST AND MEASURING METHODS (Second edition) V**

This standard specifies mechanical 0.00, electrical and climatic test methods for low-frequency cables and wires designed for use in telecommunication inside plant and equipment and in electronic devices employing similar techniques.

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MS-IEC 60189-2:1989 LOW-FREQUENCY CABLES AND WIRES WITH PVC INSULATION AND PVC SHEATH. PART 2: CABLES IN PAIRS, TRIPLES, QUADS AND QUINTUPLES FOR INSIDE INSTALLATIONS (M)

Deals with cables construction and dimensions, mechanical requirements, thermal stability and electrical requirements.

MS-IEC 60215:1987 SAFETY REQUIREMENTS FOR RADIO TRANSMITTING EQUIPMENT (M)

Applies to radio transmitting equipment operating under the responsibility of skilled personnel and deals with protection against electric shock, skin burns, high temperature and fire, implosion and explosion, harmful radiation and miscellaneous hazards. Includes design and construction requirements and test methods to ensure safety or personnel, when the equipment is operating under Conditions of normal use and certain fault conditions, when carrying out adjustments, during fault finding, and repair of the equipment : prevention of fire and its spread.

MS-IEC 60227-1:1998 POLYVINYL CHLORIDE INSULATED CABLES OF RATED VOLTAGES UP TO AND INCLUDING 450/750 V – PART 1: GENERAL REQUIREMENTS (M)

Specifies marking, core identification and general requirements for the construction of cables. Appendix describes code designation of cables.

MS-IEC 60227-3:1997 POLYVINYL CHLORIDE INSULATED CABLES OF RATED VOLTAGES UP TO AND INCLUDING 450/750 V– PART 3: NON-SHEATHED CABLES FOR FIXED WIRING (M)

Specifications for polyvinyl chlorine insulated single-core non-sheathed cables for fixed wiring of rated voltages up to and including 450/750 V. This is a consolidated version of IEC 60227-3 (1993) and its Amendment 1 (1997)

MS-IEC 60227-4:1997 POLYVINYL CHLORIDE INSULATED CABLES OF RATED VOLTAGES UP TO AND INCLUDING 450/750 V – PART 4: SHEATHED CABLES FOR FIXED WIRING (M)

Details the particular specification for light polyvinyl chloride sheathed cables of rates voltage of 300/500 V

MS-IEC 60227-5:1998 POLYVINYL CHLORIDE INSULATED CABLES OF RATED VOLTAGES UP TO AND INCLUDING 450/750 V– PART 5: FLEXIBLE CABLES (CORDS) (M)

Details the particular specifications for polyvinyl chloride insulated flexible cables (cord), of rated voltages up to and including 300/500 V

MS-IEC 60227-6:2001 POLYVINYL CHLORIDE INSULATED CABLES OF RATED VOLTAGES UP TO AND INCLUDING 450/750 V– PART 6: LIFT CABLES AND CABLES FOR FLEXIBLE CONNECTIONS (M)

Details the particular specifications for both circular and flat lift cables and cables for flexible connections of rated voltages up to and including 450/750 V. Each cable complies with the appropriate requirements given in IEC 60227-1, and with the particular requirements of this part of IEC 60227

MS-IEC 60227-7:1995 POLYVINYL CHLORIDE INSULATED CABLES OF RATED VOLTAGES UP TO AND INCLUDING 450/750 V– PART 7: FLEXIBLE CABLES SCREENED AND UNSCREENED WITH TWO OR MORE CONDUCTORS (M)

This part of IEC 60227 details the particular specifications for polyvinyl chloride insulated screened and unscreened control cables of rated voltages up to and including 300/500 V. All cables comply with the appropriate requirements given in IEC 60227-1 and each individual type of cable complies with the particular requirements of this part.

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MS-IEC 60228:1978 CONDUCTORS OF INSULATED CABLES (M)

Specifies standardized nominal cross-section areas from 0.5 mm^2 to 2 000 mm^2, numbers and diameters of wires and resistance values of conductors in electric cables and flexible cords.Includes table of temperature correction factors kt for conductor resistance to correct the measured resistance at 1 ºC to 20 ºC. Does not apply to conductors for telecommunication purposes. Applies to conductors for pressure cables, conductors in extra-flexible welding cables or in special types of flexible cables for having the cores twisted together with unsually short lays. This publication supersedes IEC 60180 (1965).

MS-IEC 60244-1:1999 METHODS OF MEASUREMENT FOR RADIO TRANSMITTERS – PART 1: GENERAL CHARACTERISTICS FOR BROADCAST TRANSMITTERS (Second edition) M

Defines the conditions and methods of measurement to be used to ascertain the performance of a radio transmitter and to make possible the comparison of the results of measurement made by different observers.

MS-IEC 60245-1:2003 RUBBER INSULATED CABLES – RATED VOLTAGES UP TO AND INCLUDING 450/750 V – PART 1: GENERAL REQUIREMENTS (Forth edition) (M)

This part of 60245 applies to rigid and flexible cables with insulation, and sheath if any, based on vulcanized rubber of rated voltages U_0/U up to and including 450/750 V used in power installations of nominal voltage not exceeding 450/750 V a.c.

MS-IEC 60245-2:1994 RUBBER INSULATED CABLES – RATED VOLTAGES UP TO AND INCLUDING 450/750 V – PART 2: TEST METHODS (M)

This part of IEC 60245 gives the test methods specified in all parts of IEC 60245 as far as not laid down in IEC 60811.

MS-IEC 60245-3:1994 RUBBER INSULATED CABLES – RATED VOLTAGES UP TO AND INCLUDING 450/750 V - PART 3: HEART RESISTANT SILICONE INSULATED CABLES (M)

Details the particular specifications for silicone rubber insulated cables of rated voltage of 300/500 V.

MS-IEC 60245-4:2004 RUBBER INSULATED CABLES – RATED VOLTAGES UP TO AND INCLUDING 450/750 V - PART 4: CORDS AND FLEXIBLE CABLES (M)

Details the particular specifications for rubber insulated and braided cords and for rubber insulated and rubber or polychloroprene or other equivalent synthetic elastomer sheathed cords and flexible cables or rated voltages up to and including 450/750 V.

MS-IEC 60245-5:1994 RUBBER INSULATED CABLES – RATED VOLTAGES UP TO AND INCLUDING 450/750 V - PART 5: LIFT CABLES (Second edition)(M

This part of IEC 245 details the particular specifications for rubber insulated lift cables of rated voltage of 300/500 V

MS-IEC 60245-6:1994 RUBBER INSULATED CABLES – RATED VOLTAGES UP TO AND INCLUDING 450/750 V - PART 6: ARC WELDING ELECTRODE CABLES (M)

Details the particular specifications for rubber insulated lift arc welding electrode cables.

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MS-IEC 60245-8:2004 **RUBBER INSULATED CABLES – RATED VOLTAGES UP TO AND INCLUDING 450/750 V - PART 8: CORDS FOR APPLICATIONS REQUIRING HIGH FLEXIBILITY (M)**

Details the particular specifications for rubber or cross-linked polyvinyl chloride insulated and rubber of cross-linked polyvinyl chloride sheathed cords or related voltage 300/300 V. for use in applications where high flexibility is required, for example iron cords.

MS-IEC 60254-1:1997 **LEAD-ACID TRACTION BATTERIES – PART 1: GENERAL REQUIREMENTS AND METHODS OF TESTS (M)**

Is applicable to lead-acid traction batteries used as power sources for electric propulsion

MS-IEC 60254-2:2000 **LEAD-ACID TRACTION BATTERIES – PART 2: DIMENSIONS OF CELLS AND TERMINAL AND MARKING OF POLARITY ON CELLS (M)**

Defines standard values relating to energizing quantities influencing quantities. Fundamental characteristics relating to temperature rises and behaviour in service. Accuracy requirements relating to the characteristic quantity and specified times. Mechanical and electrical requirements. Markings and data. Methods of measurement.

MS-IEC 60269-1:1998 **LOW-VOLTAGE FUSES – PART 1: GENERAL REQUIREMENTS (M)**

Establishes the characteristics of fuses or parts of fuses (fuse-base, fuse carrier, fuse-link) in such a way that they can be replaced by other fuses or parts of fuses having the same characteristics provided that their dimensions are identical. This publication supersedes IEC 60066 (1953) and IEC 60088 (1957).

MS-IEC 60269-2:1986 **LOW-VOLTAGE FUSES – PART 2: SUPPLEMENTARY REQUIREMENTS FOR FUSES FOR USE BY AUTHORIZED PERSONS (FUSES MAINLY FOR INDUSTRIAL APPLICATIONS) (M)**

The following characteristics of fuses are specified in addition to IEC Publication 269-1:

- Minimum rated breaking capacities;
- Time-current characteristics;
- 12t characteristics;
- Standard conditions of constructions;
- Power dissipation and acceptance

MS-IEC 60269-2-1:2004 **LOW VOLTAGE FUSES – PART 2-1:SUPPLEMENTRY REQUIREMENTS FOR FUSES FOR USE BY AUTHORIZED PERSONS (FUSES MAINLY FOR INDUSTRIAL APPLICATIONS) – SECTION I TO V : EXAMPLES OF TYPES OF STANDARDIZED FUSES (M)**

This standard is divided into five sections, each dealing with a specific example of standardized fuse for use by authorized persons:

- Section I: Fuses wit fuse-links with blade contacts.
- Section II: Fuses with fuse-links with bolted connections.
- Section III: Fuses with fuse-links having cylindrical contact caps.
- Section IV: Fuses with fuse-links with offset blade contacts.
- Section V: Fuses with fuse-links having “”gD” and “”gN” characteristics.

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MS-IEC 60269-3:2003 **LOW-VOLTAGE FUSES – PART 3: SUPPLEMENTARY REQUIREMENTS FOR FUSES FOR USE BY UNSKILLED PERSONS (FUSES MAINLY FOR HOUSEHOLD AND SIMILAR APPLICATIONS) (M)**

Applies to 'gG' fuses used by unskilled persons for domestic and similar applications with rated currents not exceeding 100 A and rated voltages not exceeding 500 V a.c. Replaces IEC 60088 (1957).

MS-IEC 60269-3-1:1999 **LOW-VOLTAGE FUSES – PART 3-1: SUPPLEMENTARY REQUIREMENTS FOR FUSES FOR USE BY UNSKILLED PERSONS (FUSES MAINLY FOR HOUSEHOLD AND SIMILAR APPLICATIONS) – SECTIONS I TO IV**

Gives a comprehensive description of the mechanical and electrical characteristics of these fuses and of the relevant tests. Describes six types of standardized fuses: D types fuses; cylindrical fuses (types A, B, C); pin-type fuses; cylindrical fuse links (primarily used in plugs). This new publication is of equal interest to the manufacturer and to the user of fuses namely for household and similar applications.

MS-IEC 60287-1-1:2001 **ELECTRIC CABLES – CALCULATION OF THE CURRENT RATING – ART 1-1: CURRENT RATING EQUATIONS (100% LOAD FACTOR) AND CALCULATION OF LOSSES - GENERAL (First Edition)**

This section of IEC 60287 is applicable to the conditions of steady-state operation of cables at all alternating voltages up to 5 kV, buried directly in the ground, in ducts, troughs or in steel pipes, both with and without partial drying-out of the soil, as well as cables in air. The term steady-state is intended to mean a continuous constant current (100 % load factor) just sufficient to produce asymptotically the maximum conductor temperature, the surrounding ambient temperature being assumed constant.

MS-IEC 60287-2-1:2001 **ELECTRIC CABLES – CALCULATION OF THE CURRENT RATING – PART 2-1: THERMAL RESISTANCE – CALCULATION OF THERMAL RESISTANCE (Second edition) V**

This section of IEC 60287 is applicable to the conditions of steady-state operation of cables at all alternating voltages up to 5 kV, buried directly in the ground, in ducts, troughs or in steel pipes, both with and without partial drying-out of the soil, as well as cables in air. The term steady-state is intended to mean a continuous constant current (100 % load factor) just sufficient to produce asymptotically the maximum conductor temperature, the surrounding ambient temperature being assumed constant.

MS-IEC 60287-3-2:1995 **ELECTRIC CABLES – CALCULATION OF THE CURRENT RATING - PART 3: SECTIONS ON OPERATING CONDITIONS - SECTION 2: ECONOMIC OPTIMIZATION OF POWER CABLE SIZE (M)**

Deals solely with the economic choice of conductor size based on joule losses. Voltage dependent losses have not been considered.

MS-IEC 60296:2003 **FLUIDS ELECTRO TECHNICAL APPLICATIONS– UNUSED MINERAL INSULATING OILS FOR TRANSFORMERS AND SWITCHGEAR (M)**

Covers specifications and test methods for unused mineral insulating oils, intended for use in transformers, switchgear and similar electrical equipment. Oils with and without additives are within the scope.

MS-IEC 60304:1982 **STANDARD COLOURS FOR INSULATION FOR LOW-FREQUENCY CABLE AND WIRES (M)**

Applies to thermoplastic insulation to be used with low frequency cables and wires.

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MS-IEC 60305:1995 **INSULATORS FOR OVERHEAD LINES WITH A NOMINAL VOLTAGE ABOVE 1000 V-CERAMIC OR GLASS INSULATOR UNITS FOR A.C. SYSTEMS - CHARACTERISTICS OF INSULATOR UNITS OF THE CAP AND PIN TYPE (M)**

Applies to string insulator units of the cap and pin type with insulating parts of ceramic material or glass, intended for a.c. overhead lines with a nominal voltage greater than 1 000 V and a frequency not greater than 100 Hz. It also applies to insulators of similar design used in substations.

MS-IEC 60309-1:2005 **PLUGS, SOCKET-OUTLETS AND COUPLES FOR INDUSTRIAL PURPOSES - PART 1: GENERAL REQUIREMENTS (M)**

This standard applies to plugs and socket outlets, cable couplers and appliance couplers, with a rated operating voltage not exceeding 690 V d.c. or a.c. and 500 Hz a.c., and a rated current not exceeding 250 A, primarily intended for industrial use either indoors or outdoors.

MS-IEC 60335-1:2005 **HOUSEHOLD AND SIMILAR ELECTRICAL APPLIANCES – SAFETY PART 1: GENERAL REQUIREMENTS (M)**

This third edition of IEC 60335-1(1991) and its 1st amendment (1994) covers the general requirements for safety of household appliances. All parts 2s, dealing with particular requirements, should be used in conjunction with this 3rd edition, except parts 2-57 and 2-63.

MS-IEC 60335-2-15:2005 **HOUSEHOLD AND SIMILAR ELECTRICAL APPLIANCES – SAFETY – PART 2-15: PARTICULAR REQUIREMENTS FOR APPLIANCES FOR HEATING LIQUIDS (M)**

Deals with the safety of electrical appliances for heating liquids for household and similar purposes, e.g. kettles, coffee-makers, steam cookers. To be used by laymen in light industry and on farms.

MS-IEC 60335-2-21:2004 **HOUSEHOLD AND SIMILAR ELECTRICAL APPLIANCES – SAFETY – PART 2-21: PARTICULAR REQUIREMENTS FOR STORAGE WATER HEATERS (M)**

Applies to stationary non instantaneous storage water heaters intended for heating water to a temperature below its boiling point, their rated voltage being not more than 250 V for single-phase appliances and 480 V for other appliances.

MS-IEC 60335-2-29:2004 **HOUSEHOLD AND SIMILAR ELECTRICAL APPLIANCES – SAFETY– PART 2-29: PARTICULAR REQUIREMENTS FOR BATTERY CHARGERS (M)**

This standard deals with the safety of battery chargers for household and similar use having an output at safety extra-low voltage, their rated voltage being not more than 250 V.

MS-IEC 60335-2-3:2005 **HOUSEHOLD AND SIMILAR ELECTRICAL APPLIANCES – SAFETY – PART 2-3: PARTICULAR REQUIREMENTS FOR ELECTRIC IRONS (M)**

Deals with the safety of electric rooms heaters for household and similar purposes with a rated voltage not more than 250 V for single-phase appliances and 480 V for other appliances.

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MS-IEC 60335-2-39:2004 **HOUSEHOLD AND SIMILAR ELECTRICAL APPLIANCES – SAFETY - PART 2-39: PARTICULAR REQUIREMENTS FOR COMMERCIAL ELECTRIC MULTI-PURPOSE COOKING PANS (M)**

Deals with the safety of electrical commercial multi-purpose cooking pans, not intended for household use. Typical use is in restaurants, canteens, bakeries, butcheries, etc. Their rated voltage is not more than 250 V for single-phase appliances and 480 V for other appliances. It also covers the electrical part of appliances using other forms of energy.

MS-IEC 60335-2-45:2002 **HOUSEHOLD AND SIMILAR ELECTRICAL APPLIANCES – SAFETY - PART 2-45: PARTICULAR REQUIREMENTS FOR PORTABLE HEATING TOOLS AND SIMILAR APPLIANCES (M)**

Deals with the safety of portable electric heating tools and similar appliances, their rated voltage being not more than 250 V.

MS-IEC 60335-2-47:2002 **HOUSEHOLD AND SIMILAR ELECTRICAL APPLIANCES – SAFETY - PART 2-47: PARTICULAR REQUIREMENTS FOR COMMERCIAL ELECTRIC BOILING PANS (M)**

Deals with the safety of electrical commercial boiling pans. They are not intended for household use. As examples, they are used in restaurants, canteens, bakeries and butcheries. Their rated voltage is not more than 250 V for single-phase appliances and 480 V for other appliances. The electrical part of appliances making use of other energy heat sources is covered.

MS-IEC 60335-2-59:2006 **HOUSEHOLD AND SIMILAR ELECTRICAL APPLIANCES – SAFETY - PART 2-59: PARTICULAR REQUIREMENTS FOR INSECT KILLERS (M)**

Applies to electric insect killers for household and similar purposes. It does not apply to appliances emitting vaporized chemicals, appliances emitting ultrasonic waves, or appliances used in corrosive or explosive atmospheres.

MS-IEC 60335-2-71:2002 **HOUSEHOLD AND SIMILAR ELECTRICAL APPLIANCES – SAFETY - PART 2-71: PARTICULAR REQUIREMENTS FOR ELECTRICAL HEATING APPLIANCES FOR BREEDING AND REARING ANIMALS (M)**

Deals with the safety of all kinds of electrical heating appliances for animals used for livestock keeping and breeding such as: heat radiating appliances, electrical sitting-hens, incubators, chicken breeding units and heating plates for animals. The rated voltage of these appliances is not more than 250 V for single-phase operation and 480 V for other operations.

MS-IEC 60357:2002 **TUNGSTEN HALOGEN LAMPS (NON VEHICLE) (M)**

This standard specifies dimensions and characteristics of tungsten halogen lamps.

MS-IEC 60364-4-41:2005 **ELECTRICAL INSTALLATIONS OF BUILDINGS – PART 4-41: PROTECTION FOR SAFETY - PROTECTION FOR SAFETY – PROTECTION AGAINST ELECTRIC SHOCK (M)**

Specifies essential requirements regarding protection against electric shock, including basic protection (protection against direct contact) of persons and livestock. It deals also with the application and co-ordination of these requirements in relation to external influences.

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MS-IEC 60364-4-42:2001 **ELECTRICAL INSTALLATIONS OF BUILDINGS – PART 4-42: PROTECTION FOR SAFETY – PROTECTION AGAINST THERMAL EFFECTS (M)**

Persons, fixed equipment, and fixed materials adjacent to electrical equipment shall be protected against harmful effects of heat developed by electrical equipment, or thermal radiation, particularly the following effects:

- Combustion or degradation of materials;
- Risk of burns;
- Impairment of the safe function of installed equipment.

MS-IEC 60364-4-43:2001 **ELECTRICAL INSTALLATIONS OF BUILDINGS – PART 4-43: PROTECTION FOR SAFETY – PROTECTION AGAINST OVERCURRENT (M)**

Describes how live conductors are protected by one or more devices for automatic eruption of the supply in the event of overload (see clause 433) and short-circuits (see clause 434) except in cases where the overcurrent is limited in accordance with clause 436 or by the conditions described in 433.3, or 434.3 are met. Further, protection against overload and against short circuits shall be co-ordinated in accordance with clause 435.

MS-IEC 60364-5-51:2005 **ELECTRICAL INSTALLATIONS OF BUILDINGS – PART 5-51: SELECTION AND ERECTION OF ELECTRICAL EQUIPMENT – COMMON RULES (M)**

This part of IEC 60364 deals with the selection of equipment and its erection. It provides common rules for compliance with measures of protection for safety requirements for proper functioning for intended use of the installation, and requirements appropriate to the external influence foreseen.

MS-IEC 60364-5-52:2001 **ELECTRICAL INSTALLATIONS OF BUILDINGS – PART 5-52: SELECTION AND ERECTION OF ELECTRICAL EQUIPMENT – WIRING SYSTEMS (M)**

Part 5-52 of IEC 60364 deals with the selection and selection and erection of wiring systems.

MS-IEC 60364-5-53:2002 **ELECTRICAL INSTALLATIONS OF BUILDINGS – PART 5-53: SELECTION AND ERECTION OF ELECTRICAL EQUIPMENT – ISOLATION, SWITCHING AND CONTROL (M)**

Deals with general requirements for isolation, switching and control and with the requirements for selection and erection of the devices provided to fulfil such functions.

MS-IEC 60364-5-54:2002 **ELECTRICAL INSTALLATIONS OF BUILDINGS - PART 5-54: SELECTION AND ERECTION OF ELECTRICAL EQUIPMENT - EARTHING ARRANGEMENTS, PROTECTIVE CONDUCTORS AND PROTECTIVE BONDING CONDUCTORS (M)**

MS-IEC 60364-5-55:2002 **ELECTRICAL INSTALLATIONS OF BUILDINGS - PART 5-55: SELECTION AND ERECTION OF ELECTRICAL EQUIPMENT - OTHER EQUIPMENT (M)**

Covers requirements for low voltage generating sets. Particular requirements for supplies for safety services are given in clause 556 while clause 559 applies to the selection and erection of luminaires and lighting installations intended to be part of the fixed installation.

Electrical standby supply systems, other than for safety services, are outside the scope of this standard.

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MS-IEC 60364-6-61:2006 **ELECTRICAL INSTALLATIONS OF BUILDINGS - PART 6-61: VERIFICATION – INITIAL (M)**

It provides requirements for initial and periodic verification of an electrical installation.

Clause 61 provides requirements for initial verification by inspection and testing, of electrical installations to determine, as far as reasonably practicable, whether the requirements of the other parts of IEC 60364 have been met and requirements for the reporting of the results of the initial verification. The initial verification takes place upon completion of a new installation or completion of additions or alterations to exiting installations.
Clause 62 provides requirements for periodic verification of an electrical installation to determine, as far as reasonably practicable, whether the installation and all its constituent equipment are in a satisfactory condition for use and requirements for the reporting of the results of the periodic verification.

MS-IEC 60364-7-705:1984 **ELECTRICAL INSTALLATIONS OF BUILDINGS. PART 7: REQUIREMENTS FOR SPECIAL INSTALLATIONS OR LOCATIONS. SECTION 705: ELECTRICAL INSTALLATIONS OF AGRICULTURAL AND HORTICULTURAL PREMISES (M)**

The particular requirements of this section apply to all parts of fixed installations of agricultural and horticultural premises outdoors and indoors and to locations where livestock are kept (such as stables, chicken-houses, pigeries, feed-processing locations, lefts and storages for hay, straw and fertilizers)

MS-IEC 60364-7-714:1996 **ELECTRICAL INSTALLATIONS OF BUILDINGS - PART 7: REQUIREMENTS FOR SPECIAL INSTALLATIONS OR LOCATIONS - SECTION 714: EXTERNAL LIGHTING INSTALLATIONS (M)**

This section of IEC 364-7 deals with external lighting installations. The requirements apply particularly to:

- Lighting installations e.g. for roads, parks, gardens, public places, sporting areas, illuminations of monuments and floodlighting;
- Other equipment incorporating lighting such as telephone kiosks, bus shelters, advertising panels, town plans, roads signs.

These rules do not apply to:

- Public lighting installations which are part of public power grid and operated by a public supply authority who is responsible for and has taken all necessary measures regarding safety;
- Temporary festoon lighting;
- Road traffic signal systems;
- Luminaires which are fixed to the outside of a building and are supplied
- Directly from the internal wiring of that building.

For lighting installations for swimming pools and fountains, see IEC 364-7-702.

MS-IEC 60383-1:1993 **INSULATORS FOR OVERHEAD LINES WITH A NOMINAL VOLTAGE ABOVE 1000 V PART 1: CERAMIC OR GLASS INSULATOR UNITS FOR A.C. SYSTEMS - DEFINITIONS, TEST METHODS AND ACCEPTANCE CRITERIA (M)**

Applies to insulators of ceramic material or glass for use on a.c. overhead power lines with a nominal voltage greater than 1 000 V and a frequency not greater than 100 Hz. Also applies to insulators for use on d.c. overhead electric traction lines and applies to string insulator units, rigid overhead line insulators and to insulators of similar design when used in substations.

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MS-IEC 60410:1973 SAMPLING PLANS AND PROCEDURES FOR INSPECTION BY ATTRIBUTES (M)

This recommendation established sampling plans and procedures for inspection by attributes. When specified by the responsible authority, this recommendation shall be called up in the specification, contract, inspection instructions or other documents and the provisions set forth herein shall govern. The "response authority" shall be designated in one of the above documents.

MS-IEC 60423:1993 CONDUITS FOR ELECTRICAL PURPOSES - OUTSIDE DIAMETERS OF CONDUITS FOR ELECTRICAL INSTALLATIONS AND THREADS FOR CONDUITS AND FITTINGS (M)

This International Standard specifies outside diameters for conduits used in electrical installations and the dimensional requirements for threads. It also specifies the dimensional requirements for threads used in associated fittings.
It is not applicable to extra-heavy duty rigid steel conduits specified in IEC 981.

MS-IEC 60432-1:2005 INCANDESCENT LAMPS - SAFETY SPECIFICATIONS - PART 1: TUNGSTEN FILAMENT LAMPS FOR DOMESTIC AND SIMILAR GENERAL LIGHTING PURPOSES (M)

Specifies the safety and interchangeability requirements of tungsten filament incandescent lamps for general lighting service having:

- Rated wattage up to and including 200 W;
- Rated voltage of 50 V to 250 V inclusive;
- Bulbs of the A, B, C, G, M, P, PS, PAR or R shapes, or other bulb shapes where the lamps are intended to serve the same purpose as
- lamps with the foregoing bulb shapes;
- Bulbs with all kinds of finishes;
- Caps B15d, B22d, E12, E14, E17, E26, E26d, E26/50 x 39, E27 or E27/51 x 39

As far as is reasonably practicable, this standard is also applicable to lamps with bulbs and caps other than those mentioned above, but which serve the same purpose.

MS-IEC 60432-2:2005 INCANDESCENT LAMPS - SAFETY SPECIFICATIONS - PART 2: TUNGSTEN HALOGEN LAMPS FOR DOMESTIC AND SIMILAR GENERAL LIGHTING PURPOSES (M)

Specifies the safety and the related interchangeability requirements of tungsten halogen lamps for general lighting service. It covers those tungsten halogen lamps that are used as direct replacements for conventional tungsten filament lamps as well as new tungsten halogen lamps which have no correspondence in

IEC 60432-1, but for which the safety and interchangeability requirements are treated by this standard in conjunction with IEC 60432-1. These tungsten halogen lamps have the following characteristics:

- Rated wattage up to and including 250 W;
- Rated voltage of 50 V to 250 V inclusive;
- Caps B115d, B22d, E12, E14, E17, E26, E26D, E26/50 X 39, E27 or E27/51 x 39.

MS-IEC 60433:1998 INSULATORS FOR OVERHEAD LINES WITH A NOMINAL VOLTAGE ABOVE 1 000 V- CERAMIC INSULATORS FOR A.C SYSTEMS - CHARACTERISTICS OF INSULATORS UNITS OF THE LONG ROD TYPE (M)

Prescribes specified values for the electrical and mechanical characteristics and for the principal dimensions of string insulator units of the long rod type with insulating parts of ceramic material intended for a.c. overhead lines with a

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nominal voltage greater than 1 000 V and a frequency not greater than 100 Hz. It is also applicable to insulators of similar design, used in substations. Applies also to string insulator units: -of the long rod type either with a clevis at both ends for coupling with a tongue, or with a socket at both ends for coupling with a pin ball -with external metal fittings -for use on overhead lines situated in slightly polluted areas, and the creepage distances given in Tables I and II have been established accordingly and insulators of similar design, used in substations. This standard may be regarded as a provisional standard for insulators for d.c. overhead lines.

MS-IEC 60530:1975 **METHODS FOR MEASURING THE PERFORMANCE OF ELECTRIC KETTLES AND JUGS FOR HOUSEHOLD AND SIMILAR USE (M)**

Applies to electric kettles and jugs for household and similar use with a capacity up to 2.5.1.

MS-IEC 60567:2005 **OIL-FILLED ELECTRICAL EQUIPMENT - SAMPLING OF GASES AND OF OIL FOR ANALYSIS OF FREE AND DISSOLVED GASES – GUIDANCE (M)**

Deals with the techniques for sampling free gases from gas- collecting relays and for sampling oil from oil-filled equipment such as power and instrument transformers, reactors, bushings, oil-filled cables and oil-filled tank-type capacitors. Three methods of sampling free gases and three methods of sampling oil are described. The choice between the methods often depends on the apparatus available and on the quantity of oil needed for analysis.

MS-IEC 60598-1:2003 **LUMINAIRES - PART 1: GENERAL REQUIREMENTS AND TESTS (M)**

Covers general requirements for the classification and marking of luminaires and for their mechanical and electrical construction, together with related tests. Is applicable to luminaires for use with tungsten filaments, tubular fluorescent and.
Other discharge lamps on supply voltages not exceeding 1 000 This publication supersedes IEC 60162 (1972).

MS-IEC 60598-2-3:2000 **LUMINAIRES - PART 2-3: PARTICULAR REQUIREMENTS - LUMINAIRES FOR ROAD AND STREET LIGHTING (M)**

Specifies requirements for luminaires for road and street lighting, for use with tungsten filament, tubular fluorescent and other discharge lamps on supply voltages not exceeding 1 000 V.

MS-IEC 60598-2-5:1992 **LUMINAIRES - PART 2-5: PARTICULAR REQUIREMENTS - FLOOD LIGHTS (M)**
Specifies requirements for floodlights for use with tungsten filament, tubular fluorescent and other discharge lamps on supply voltages not exceeding 1 000 V.

MS-IEC 60614-2-1:1993 **SPECIFICATION FOR CONDUITS FOR ELECTRICAL INSTALLATIONS. PART 2: PARTICULAR SPECIFICATIONS FOR CONDUITS. SECTION ONE: METAL CONDUITS (M)**

This standard specifies requirements for threadable and non-threadable plain rigid metal conduits.

MS-IEC 60614-2-2:1980 **SPECIFICATION FOR CONDUITS FOR ELECTRICAL INSTALLATIONS. PART 2: PARTICULAR SPECIFICATIONS FOR RIGID PLAIN CONDUITS OF INSULATING MATERIALS (M)**

This standard specifies requirements for rigid non-flame propagating plain conduits of insulating materials.

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MS-IEC 60614-2-5:1992 **SPECIFICATIONS FOR CONDUITS FOR ELECTRICAL INSTALLATIONS - PART 2: PARTICULAR SPECIFICATIONS FOR CONDUITS - SECTION 5: FLEXIBLE CONDUITS (M)**

This standard specifies requirements for flexible conduits of metal, insulating or composite materials for the protection of conductors and cables in electrical installations. It does not cover requirements for conduit fittings.

MS-IEC 60614-2-6:1992 **SPECIFICATIONS FOR CONDUITS FOR ELECTRICAL INSTALLATIONS - PART 2: PARTICULAR SPECIFICATIONS FOR CONDUITS - SECTION 6: PLIABLE CONDUITS OF METAL OR COMPOSITE MATERIALS (M)**

This clause of Part 1 is applicable except as follows:
Addition:

This standard specifies requirements for pliable conduits of metal or composite materials for the protection of conductors and cables in electrical installation. It does not cover requirements for conduit fittings.

MS-IEC 60649:1979 **CALCULATION OF MAXIMUM EXTERNAL DIAMETER OF CABLES FOR INDOOR INSTALLATIONS (M)**

Specifies the method of calculation for maximum external diameter of low frequency cables for indoor installations. Gives an example of calculation of diameter over assembly for cable with screened elements. Has the status of a technical report.

MS-IEC 60652:2002 **LOADING TESTS ON OVERHEAD LINE STRUCTURES (M)**

Codifies the methods of testing supports for overhead lines.

It is applicable to the testing of supports and structures of overhead lines for voltages above 45 kV; it can also serve as reference to the testing of lower voltage support.

There is no restriction on the type of material used in the fabrication of the supports which may include, but not be limited to, metallic alloys, concrete, timber, laminated wood and composite materials. If required by the client, this standard may also be applied to the testing of telecommunication supports, railways/tramway overhead electrification supports, electrical substation gantries, street lighting columns, wind turbine towers, ski-lift supports, etc.
Test on reduced scale models of supports are not covered by this standard.

MS-IEC 60665:1980 **A.C ELECTRIC VENTILATING FANS AND REGULATORS FOR HOUSEHOLD AND SIMILAR PURPOSES (M)**

Specifies the performance and the corresponding methods of test of ventilating fans for household and similar purposes intended for air forcing and exhaust, not exceeding 0.5 m in size, driven by single-phase a.c. motors having a power consumption not exceeding 500 W (including any associated regulators), for use on single-phase a.c. circuits not exceeding 250 V. Applies to ventilating fans such as wall fans, window fans, kitchen fans, etc.

MS-IEC 60669-1:2000 **SWITCHES FOR HOUSEHOLD AND SIMILAR FIXED-ELECTRICAL INSTALLATIONS - PART 1: GENERAL REQUIREMENTS (M)**

Applies to manually operated general purpose switches for a.c. only, with a rated voltage not exceeding 440 V and a rated current not exceeding 63 A.

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MS-IEC 60672-2 **CERAMIC AND GLASS INSULATING MATERIALS - PART 2: METHODS OF TEST (M)**

Applicable to ceramic, glass and glass-ceramic materials to be used for electrical insulation purposes. Specifies methods of test. Intended to provide test results typical of the material from which the test pieces are processed. Since, in the majority of cases, ceramic components for insulating purposes are of rather different size and shape to test pieces, the results of such tests provide only a guide to the actual properties of components. The limitations imposed by the method of forming and processing are discussed where relevant

MS-IEC 60672-3:1997 **CERAMIC AND GLASS INSULATING MATERIALS - PART 3: SPECIFICATIONS FOR INDIVIDUAL MATERIALS (M)**

Applicable to ceramic, glass-ceramic, glass-mica and glass materials for electrical insulating purposes giving a classification of materials and typical numerical values for the major characteristics.

MS-IEC 60826:1991 **DESIGN CRITERIA OF OVERHEAD TRANSMISSION LINES (M)**

Specifies the loading and strength requirements of overhead lines derived from reliability based design principles. These requirements apply to lines 45 kV and above, but can also be applied to lines with a lower nominal voltage.

It also provides a framework for the preparation of national standards dealing with overhead transmission lines, using reliability concepts and employing probabilistic or semi-probabilistic methods. These national standards will need to establish the local climatic data for the use and application of this standard, in addition to other data that are country specific.

Although the design criteria in this standard apply to new lines, many concepts can be used to address the reliability requirements for refurbishments for refurbishment and uprating of existing lines.

This standard does not cover the detailed design of line components such as towers, foundations, conductors or insulators.

MS-IEC 60865-1:1993 **SHORT-CIRCUIT CURRENTS - CALCULATION OF EFFECTS -PART 1: DEFINITIONS AND CALCULATION METHODS (M)**

It is applicable to the mechanical and thermal effects of short circuit currents. It contains standardized procedures for the calculation of the effects of the

short-circuit currents in two sections as follows:

Section 2 – The electromagnetic on rigid conductors and flexible conductors.

Section 3 – the thermal effect on bare conductors and electrical equipment.

For cables and insulated conductors reference is made, for example, to IEC 949 and IEC 986.

Only a.c. systems for rated voltages up to and including 420 kV are dealt with in this standard.

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MS-IEC 60884-1:1987 **PLUGS, SOCKET-OUTLETS AND COUPLES FOR HOUSEHOLD AND SIMILAR PURPOSES - PART 1: GENERAL REQUIREMENTS (M)**

Applies to plugs and fixed or portable socket-outlets for a.c. only with or without earthing contact, with a rated voltage greater than 50 V but not exceeding 440 V and a rated current not exceeding 32 A, intended for household and similar purposes, either indoors or outdoors.

The rated current is limited to 16 A maximum for fixed socket-outlets provided with screwless terminals.

This standard does not cover requirements for flush mounting boxes; however, it covers only those requirements for surface-type mounting boxes which are necessary for the tests on the socket-outlet.

MS-IEC 60884-2-1:1987 **PLUGS AND SOCKET-OUTLETS FOR HOUSEHOLD AND SIMILAR PURPOSES. - PART 2: PARTICULAR REQUIREMENTS FOR FUSED PLUGS (M)**

This standard applies where fuses are primarily intended to protect the flexible cable or cord (e.g. with ring circuits).The fuses are not intended to protect appliances or parts of them against overload.

MS-IEC 60884-2-2:1987 **PLUGS AND SOCKETS-OUTLETS OUTLETS FOR HOUSEHOLD AND SIMILAR PURPOSES. - PART 2: PARTICULAR REQUIREMENTS FOR SOCKET-OUTLETS FOR APPLIANCES (M)**

Applies to socket-outlets integrated or intended to be incorporated in or fixed to appliances.

MS-IEC 60885-1:1995 **ELECTRICAL TEST METHODS FOR ELECTRIC CABLES. PART 1: ELECTRICAL TESTS FOR CABLES, CORDS AND WIRES FOR VOLTAGES UP TO AND INCLUDING 450/750 V (M)**

The electrical test methods described in this standard are given as a guide to be followed for testing wires, cords and cables in case the relevant cable standard does not prescribe a different electrical test method.

The electrical tests are applicable only to:

- Unsheathed wires, cords and cables;
- Cores taken from complete sheathed cords and cables all having a maximum rated voltage up to and including 450/750 V

MS-IEC 60888:1987 **ZINC-COATED STEEL WIRES FOR STRANDED CONDUCTORS (M)**

Applies to zinc-coated steel wires used in the construction and/or reinforcement of conductors for overhead power transmission purposes.

It is intended to cover all wires used in constructions where the individual wire diameters, including coating, are in the range of 1.25 mm to 5.50 mm. Three grades of steel are included to reflect the needs of conductor users: regular steel, high strength and extra high strength steel and extra high strength steel. Two classes of coating represented by minimum zinc mass per unit area are included: Class 1 and Class 2.

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MS-IEC 60889:1987 **HARD-DRAWN ALUMINIUM WIRE FOR OVERHEAD LINE CONDUCTORS (M)**

Is applicable to hard-drawn aluminium wires for the manufacture of stranded conductors for overhead power transmission purposes. It specifies the mechanical and electrical properties of wires in the diameter range 1.25 mm to 5.00 mm.

MS-IEC 60896-11:2002 **STATIONERY LEAD-ACID BATTERIES - PART 11: VENTED TYPES - GENERAL REQUIREMENTS AND METHODS OF TESTS (M)**

This part of IEC 60896 is applicable to lead-acid cells and batteries which are designed for service in fixed locations (i.e. not habitually to be moved from place to place) and which are permanently connected to the load and to the d.c. power supply. Batteries operating in such applications are called “stationery batteries”.

MS-IEC 60904-2:1984 **PHOTOVOLTAIC DEVICES. PART 2: REQUIREMENTS FOR REFERENCE SOLAR CELLS (M)**

This standard gives requirement for the classification, selection, packaging, marking, calibration and care of crystalline silicon reference solar cells.

MS-IEC 60904-3: 1989 **PHOTOVOLTAIC DEVICES. PART 3: MEASUREMENT PRINCIPLES FOR TERRESTRIAL PHOTOVOLTAIC (PV) SOLAR DEVICES WITH REFERENCE SPECTRAL IRRADIANCE DATA (M)**

This standard applies to the following crystalline silicon photovoltaic devices for

terrestrial applications:

- Single solar cells with or without a protective cover;
- Sub-assemblies of solar cells;
- Flat modules.

This standard is not applicable to solar cells designed for operation in concentrated sunlight, to modules embodying concentrators, nor to hybrid collectors which in addition to generating electricity, transfer heat to fluids for use in thermal systems.

MS-IEC 60906-1:1989 **IEC SYSTEM OF PLUGS AND SOCKET-OUTLETS FOR HOUSEHOLD AND SIMILAR PURPOSES - PART 1: PLUGS AND SOCKET-OUTLETS 16A 250 V A.C. (M)**

This standard applies to the IEC system of plugs and socket-outlets rated 16 A 250 V a.c. for household and similar purposes for the connection of equipment to distribution systems having nominal voltages between 200 V and 250 V a.c, in so far as dimensional requirements are concerned.

This standard does not apply to plugs and socket-outlets rated 15A 125 V a.c. for household and similar purposes for the connection of equipment to distribution systems having nominal voltages between 100 V and 125 V a.c.

MS-IEC 60921:2004 **BALLATS FOR TUBULAR FLUORESCENT LAMPS - PERFORMANCE REQUIREMENTS (M)**

This standard specifies performance requirements from ballasts, excluding resistance types for use in a.c. supplies up to 1 000v at 50 Hz or 60 Hz, associated with tubular fluorescent lamps, with pre-heated cathodes operated with or without a starter or starting device and having rated wattages, dimensions and characteristics as specified in IEC 60081 and 60901.It applies to complete ballasts and their component parts such as resistors, transformers and capacitors. A.C supplied electronic ballasts for tubular fluorescent lamps for high frequency operation specified in IEC 61347 – 2 -3 are excluded from the scope of standard.

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MS-IEC 60923:2005 **AUXILIARIES FOR LAMPS - BALLATS FOR DISCHARGE LAMPS (EXCLUDING TUBULAR FLUORESCENT LAMPS) - PERFORMANCE REQUIREMENTS (M)**

Specifies performance requirements for ballasts for discharge lamps such as high pressure mercury vapour, how-pressure sodium vapour, and high pressure requirements for a particular type of ballast. This standard covers inductive type ballasts for use in a.c. supplies up to 1500 v at 50 Hz to 60 Hz associated with discharge lamps having rated wattages, dimensions and characteristics as specified in the relevant IEC lamp standards.

MS-IEC 60925:2001 **DC SUPPLIED ELECTRONIC BALLATS FOR TUBULAR FLUORESCENT LAMPS - PERFORMANCE REQUIREMENTS (M)**

Specifies performance requirements for star devices (starter and ignitors) for tubular fluorescent and other discharge lamps for use on a.c supplies up to 1000 v at 50 Hz or 60Hz, which produce starting pulses not greater than 5 kV. It should be read in conjunction with IEC 60926.

MS-IEC 60927:2004 **AUXILIARIES FOR LAMPS - STARTING DEVICES (OTHER THAN GLOW STARTERS) - PERFORMANCE REQUIREMENTS (M)**

Specifies performance requirements for starting device (starter and ignitors) for tubular fluorescent and other discharge lamps for use on a.c. supplies up to 1 000 V at 50 Hz or 60 Hz, which produce starting purses not greater than 5 kV. It should be read in conjunction with IEC 60926.

MS-IEC 60974-11:2004 **ARC WELDING EQUIPMENT - PART 11: ELECTRODE HOLDERS (M)**

This part of IEC 60974 is applicable to electrode holders for manual metal arc welding with electrodes up to 10 mm in diameter.

It is not applicable to electrode holders for under water welding.

This part of IEC 60974 specifies safety and performance requirements of electrode holders.

MS-IEC 60974-12:2005 **ARC WELDING EQUIPMENT - PART 12: COUPLING DEVICE FOR WELDING (M)**

This part of IEC 60974 is applicable to coupling devices for cables for welding and allied processes designed for connection and disconnection without using tools. This part of IEC 60974 specifies safety and performance requirements of coupling devices. This part of IEC 60974 is not applicable to coupling devices for underwater welding.

MS-IEC 61035-1:1990 **SPECIFICATION FOR CONDUIT FITTINGS FOR ELECTRICAL INSTALLATIONS PART 1: GENERAL REQUIREMENTS (M)**

This International Standard specifies requirements for conduit fittings for use with conduits for the protection of conductors and/or cables in electrical installations, and type tests for the quality of joints of conduit fittings to conduit.

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MS-IEC 61035-2-1:1993 **SPECIFICATION FOR CONDUIT FITTINGS FOR ELECTRICAL INSTALLATIONS - PART 2: PARTICULAR SPECIFICATIONS - SECTION 1: METAL CONDUIT FITTINGS (M)**

This clause of part 1 is applicable except as follows:
Addition:
This section of IEC 1035-2 specifies requirements for metal conduit fittings, for use with circular, threadable or non-threadable conduits complying with IEC 614.
This standard is not applicable to fittings for use with flexible conduits (IEC 614-2-5)

MS-IEC 61035-2-2:1993 **SPECIFICATION FOR CONDUIT FITTINGS FOR ELECTRICAL INSTALLATION - PART 2: PARTICULAR SPECIFICATIONS - SECTION 2: CONDUIT FITTINGS OF INSULATING MATERIAL(M)**

This clause of part 1 is applicable except as follows:

Addition: This section of 1035-2 specifies requirements for conduit fittings of insulating material, for use with circular conduits complying with IEC 614.

MS-IEC 61039:1990 **GENERAL CLASSIFICATION OF INSULATING LIQUIDS (M)**

This International Standard defines the detailed classification of family N (insulating liquids) which belongs to class L (lubricants, industrial oils and related products) in accordance with ISO 8681 and ISO 6743-0

MS-IEC 61058-1:2001 **SWITCHES FOR APPLIANCES - PART 1 GENERAL REQUIREMENTS (M)**

This International Standard applies to switches (mechanical or electronic) for appliances actuated by hand, by foot or by other human activity, to operate or control electrical appliances and other equipment for household or similar purposes with a rated voltage not exceeding 440V and a rated current not exceeding 63 A.

MS-IEC 61058-2-1:1992 **SWITCHES APPLIANCES - PART 2-1: PARTICULAR REQUIREMENT FOR CORD SWITCHES (M)**

This clause of part 1 is applicable except as follows:

*Replacement:*1.1 this International Standard IEC 1058-2-1 applies to cord switches for appliances actuated by hand, by foot or by other human activity for use in, on or with appliances and other equipment for household and similar purposes, with a rated voltage not exceeding 250 V and a rated current not exceeding 16 A

1.2 *Replacement* This standard applies to switches intended to be connected to a cord.

MS-IEC 61084-1:1991 **CABLE TRUNKING AND DUCTING SYSTEMS FOR ELECTRICAL INSTALLATIONS - PART 1: GENERAL REQUIREMENTS (M)**

Specifies requirements for cable trunking and cable ducting systems intended for the accommodation, and where necessary for the segregation, of conductors, cables or cords and/or other electrical equipment in electrical installations.

This specification does not apply to conduit, cable tray or cable ladder or current – carrying parts within the system.

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MS-IEC 61084-2-1:1996 **CABLE TRUNKING AND DUCTING SYSTEMS FOR ELECTRICAL INSTALLATIONS - PART 2: PARTICULAR REQUIREMENTS - SECTION 1: CABLE TRUNKING AND DUCTING SYSTEMS INTENDED FOR MOUNTING ON WALLS OR CEILINGS (M)**

This section of IEC 1084-2 specifies requirements for cable trunking and ducting systems intended for mounting on walls or ceilings. The cable trunking and ducting systems accommodate and where necessary, segregate conductors, cables or cords and other electrical equipment.

The systems are intended to be mounted directly on walls or ceilings, flush or semiflush, or indirectly on walls or ceilings or on structures away from walls or ceilings.

This standard does not apply to conduits, cable trays or cable ladders, electrical accessories e.g. switches, socket-outlets or the like, for which other IEC standards apply, or current carrying parts within the system.

MS-IEC 61084-2-4:1996 **CABLE TRUNKING AND DUCTING SYSTEMS FOR ELECTRICAL INSTALLATIONS – PART 2: PARTICULAR REQUIREMENTS – SERVICE POLES (M)**

This section of IEC 1084-2 specifies requirements for service poles intended for the accommodation, and where necessary for the segregation, of conductors, cables or cords and/or other electrical equipment in electrical installations. It specifies requirements for service poles intended for either re-locatable or fixed mounting, in any direction as shown in figure 101.

This standard does not apply to conduits, cable trays or cable ladders or to current-carrying parts within the system.

MS-IEC 61089:1991 **ROUND WIRE CONCENTRIC LAY OVERHEAD ELECTRICAL STRANDED CONDUCTORS (M)**

This International Standard specifies the electrical and mechanical characteristics of round wire concentric lay overhead electrical stranded conductors made of combinations of any of the following metal wires:

- Hard-drawn aluminium as per IEC 889 designated A1;
- Aluminium alloy type B as per IEC 104 designated A2;
- Aluminium alloy type A as per IEC 104 designated A3 (and when applicable to the following cores, as per IEC 888);
- Regular strength steel, designated S1A or S1B, where A and B are zinc coating classes, corresponding respectively to classes 1 and 2;
- High strength steel, designated S2A or S2S;
- Extra high strength steel designated S3A.

MS-IEC 61138:1994 **CABLES FOR PORTABLE EARTHING AND SHORT-CIRCUITING EQUIPMENT (M)**

This International Standard applies to flexible cables with covering based on ethylene propylene rubber (EPR) or on polyvinyl chloride (PVC) for portable earthing and short-circuiting equipment. For this type of cable no rated voltage is given as such cables are exclusively intended for earthing and short-circuiting equipment.

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MS-IEC 61140:2004 **PROTECTION AGAINST ELECTRIC SHOCK - COMMON ASPECTS FOR INSTALLATION AND EQUIPMENT (M)**

Applies to the protection of persons and animals against electric shock. It is intended to give fundamental principles and requirements which are common to electrical installations, systems and equipment or necessary for their co-ordination. This standard has been prepared for installations system and equipment without a voltage limit. The requirements of this standard apply only if they are incorporated, or are referred to, in the relevant standards. It is not intended to be used as a stand-alone standard.

MS-IEC 61156-1:2004 **MULTICORE AND SYMMETRICAL PAIR/QUAD CABLE FOR DIGITAL COMMUNICATIONS PART 1 – GENERIC SPECIFICATION (M)**

This part of IEC 61156 is a guide to indoor cables which specifies the definition and requirements of multicore, symmetrical pair and quad cables used in digital communication system such as integrated services digital network (ISDN), local area networks and data communication systems

MS-IEC 61156-1-1:2001 **MULTICORE AND SYMMETRICAL PAIR/QUAD CABLE FOR DIGITAL COMMUNICATIONS – PART 1-1: CAPABILITY APPROVAL – GENERIC SPECIFICATION (M)**

This part of IEC 61156 which is a generic specification applies to Capability approval requirements for multicore and symmetrical pair/quad cables for digital Communications as specified in IEC 61156-1 series. It specifies the requirements for a manufacturer seeking approval of his capability to design (if applicable), manufacture, inspect, test and release multicore and symmetrical pair/quad cables for digital communications as defined in his Capability Manual.

MS-IEC 61173:1992 **OVER VOLTAGE PROTECTION FOR PHOTOVOLTAIC (PV) POWER GENERATING (M)**

Gives guidance on the protection of overvoltage issues for both stand-alone and grid-connected photovoltaic power generating systems**.**

MS-IEC 61194:1992 **CHARACTERISTIC PARAMETERS OF STAND-ALONE PHOTOVOLTAIC (PV) SYSTEMS (M)**

This International Standard defines the major electrical, mechanical and environmental parameters for the description and performance analysis of stand-alone photovoltaic systems. The parameters as listed are presented in a standard format for the purposes of procurement and performance analysis:

- Measurement of short-and long-term on-site photovoltaic system performance;
- Comparison between on-site measured and projected performance, both extrapolated to standard test conditions (STC).

MS-IEC 61215:2005 **CRYSTALLINE SILICON TERRESTRIAL PHOTOVOLTAIC (PV) MODULES DESIGN QUALIFICATION AND TYPE APPROVAL (M)**

This International Standard lays down IEC requirements for the design qualification and type approval of terrestrial photovoltaic modules suitable for long-term operation in general open-air climates, as defined in IEC 60721-2-1. It applies only to crystalline silicon modules types. A standard for thin-film modules has been published as IEC 61646.This standard does not apply to modules used with concentrated sunlight.

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MS-IEC 61293 :1994 **MARKING OF ELECTRICAL EQUIPMENT WITH RATINGS RELATED TO ELECTRICAL SUPPLY - SAFETY REQUIREMENTS (M)**

This International Standard establishes minimum requirements (see note 1) and general rules on marking electrical equipment (see note 2) with ratings and other characteristics to enable the proper and safe selection and installation of electrical equipment related to any supply or electricity.

MS-IEC 61364:1999 **NOMENCLATURE OF HYDROELECTRIC POWERPLANT MACHINERY (V)**

This technical report provides a basic nomenclature for hydraulic machinery used in hydroelectric power stations and defines their components.
The object of the report is to:

- Standardise the names of components by giving a preferred name where more than one exist
- Define components diagrammatically to facilitate their identification;
- Aid in translation of component names from one language to another.

MS-IEC 61386-1:1996 **CONDUIT SYSTEMS FOR ELECTRICAL INSTALLATIONS - PART 1:GENERAL REQUIREMENTS (M)**

This part of IEC 1386 specifies requirements and tests for conduit systems, including conduits and conduit fittings, for the protection and management of insulated conductors and/or cables in electrical installations or in communication systems up to 1000 V a.c. and/or 1500 V d.c. This standard applies to metallic, non-metallic and composite conduit systems, including threaded and non-threaded entries which terminate the system. This standard does not apply to enclosures and connecting boxes which come within the scope of IEC 670.

MS-IEC 61394:1997 **OVERHEAD LINES - CHARACTERISTICS OF GREASES FOR ALUMINIUM, ALUMINIUM ALLOY AND STEEL BARE CONDUCTORS (M)**

This technical report applies to products designed for corrosion protection of bare electrical overhead conductors in any combination of

- Wires of aluminium and aluminium alloy;
- Wires of steel coated with zinc (galvanized) and zinc alloy with aluminium;
- Wires of steel coated with aluminium.

MS-IEC 61400-SER-1:2005 **WIND TURBINE GENERATOR SYSTEMS - PART 1: SAFETY REQUIREMENTS (M)**

Deals with safety aspects, quality assurance and engineering integrity, and specifies safety requirements for design, installation and operation of wind turbine generator systems
.

MS-IEC 61400-SER-2:2006 **WIND TURBINE GENERATOR SYSTEMS - PART 2: SAFETY OF SMALL WIND TURBINES (M)**

Deals with safety philosophy, quality assurance, engineering integrity and specifies requirements for the safety of wind turbines having a swept area smaller than 40m2 and generating at a voltage below 1000v a.c. or 1500v d.c

MS-IEC 61400-SER-12-1:2005 **WIND TURBINE GENERATOR SYSTEMS - PART 12-1: WIND TURBINE POWER PERFORMANCE TESTING (M)**

Specifies a procedure for measuring the power performance characteristics of a single wind turbine generator system (WTGS) and applies to the testing of WTGS of all types and sizes connected to the electrical network.

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MS-IEC 61400-SER-23:2001 **WIND TURBINE GENERATOR SYSTEMS - PART 23: FULL SCALE STRUCTURAL TESTING OF ROTOR BLADES (M)**

This technical specification provides guidelines for the full-scale structural testing of wind turbine blades and for the interpretation or evaluation of results, as a possible part of a design verification of the integrity of the blade.
The following tests are considered in this technical specification:

- Static strength test;
- Fatigue tests;
- Other tests determining blade properties.

MS-IEC 61427:1995 **SECONDARY CELLS AND BATTERIES FOR PHOTOVOLTAIC ENERGY SYSTEMS (PVES) - GENERAL REQUIREMENTS AND METHODS OF TEST (M)**

Gives general information relating to the requirements of the secondary batteries used in photovoltaic energy systems and to the typical methods of test used for the verification of battery performances. This international standard does not include specific information relating to battery assizing, method of change of PVES design.

MS-IEC 61429:1995 **MARKING OF SECONDARY CELLS AND BATTERIES WITH THE INTERNATIONAL RECYCLING SYMBOL ISO 7000-1135 (M)**

Defines the conditions of utilization of the recycling symbol of the international Organization for standardization (ISO) associated with the chemical symbols indicating the electrochemical system of the battery. This standard applies to lead-acid batteries (pb) and nickel-cadmium batteries (Ni-Cd).

In all cases cells have to be marked individually with the exception of those constituting a battery or a subassembly that cannot be dismantled. For example, traction batteries and stationary batteries should be marked on or near the type of plate only.

The object of this standard is to present recommendations concerning the size of the symbol and its location on the surface of the cells and batteries or on the packages of button cells.

MS-IEC 61479:2002 **LIVE WORKING - FLEXIBLE CONDUCTOR COVERS (LINE HOSES) OF INSULATING MATERIAL (M)**

Is applicable to flexible insulating covers (line hoses) for the protection of workers from accidental contact with live or earthed electrical conductors and for the avoidance of short circuits during live working.

MS-IEC 61558-1:2005 **SAFETY OF POWER TRANSFORMERS, POWER SUPPLIES, REACTORS AND SIMILAR PRODUCTS - PART 1: GENERAL REQUIREMENTS AND TESTS (M)**

This International Standard deals with safety aspects of power transformers, power supplies, reactors and similar products such as electrical, thermal and mechanical safety.It covers the following types of dry-type transformers, power supplies, including switch mode power supplies, and reactors, the windings of which may be encapsulated or non-encapsulated.

MS-IEC 61597:1995 **OVERHEAD ELECTRICAL CONDUCTORS - CALCULATION FOR STRANDES BARE CONDUCTORS (First edition *85p*)(M)**

Provides information with regards to conductors specified in IEC 61089. Such information includes properties of conductors and useful methods of calculations. It does not discuss all theories and available methods for calculating conductor properties, but provides users with simple methods that provide acceptable accuracies. This publication has the status of a Technical Report – type.

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MS-IEC 61663-2:2001 LIGHTING PROTECTION - TELECOMMUNICATION LINES - PART 2: LINES USING METALLIC CONDUCTORS (M)

This part of IEC 61663 deals with protection against lighting of outdoor telecommunication lines using metallic conductors (for example, access networks, and lines between buildings).
These lines concern:

- Telecommunication lines connecting a switch with a network termination (NTI)
- Telecommunication or signal lines connecting equipment located in different buildings, e.g. ISDN lines or signal lines between computers.

The object of this standard is to protect telecommunication lines and connect equipment against the direct and indirect influence of lighting by limiting the risk of damage due to overvoltages and overcurrents, liable to occur in these lines, tovalues which are lower than or equal to the tolerable risk of damage. For more details see annex A.

The type of building can also have an effect on the risk assessment of lighting damage to telecommunication lines as well as the physical layout of the equipment installation. However, these and other similar aspects are covered by appropriate specific standards and are beyond the scope of this standard,

Fibre optical cable with metallic pairs in the cable core must be protected, following the requirements of this standard, together with those requirements defined in IEC 61663-1.`

MS-IEC 61672-1:2001 ELECTOACOUSTICS - SOUND LEVEL METERS - PART 1: SPECIFICATIONS (M)

This standard gives electro-acoustical performance specifications for three kinds of sound measuring instruments:

- A conventional sound level meter that measures exponential time-weighted sound level;
- An integrating-averaging sound level meter that measures time-average sound level; and and integrating sound level meter that measures sound exposure level.

MS-IEC 61672-2:1995 ELECT ACOUSTICS - SOUND LEVEL METERS - PART 2: PATTERN EVALUATION TESTS (M)

This part of IEC 61672 provides details of the tests necessary to verify conformance to all mandatory specifications given in IEC 61672-1:2002 for conventional sound level meters, integrating-averaging sound level meters and integrating sound level meters. Pattern evaluation tests apply for each channel of a multi-channel sound level meter, as appropriate. Tests and test methods are applicable to class 1 and class 2 sound level meters. The aim is to ensure that all testing laboratories use consistent methods to perform pattern evaluation tests.

MS-IEC 61683:1999 PHOTOVOLTAIC SYSTEMS – POWER CONDITIONERS – PROCEDURE FOR MEASURING EFFICIENCY (M)

This standard describes guidelines for measuring the efficiency of power conditioners used in stand-alone and utility-interactive photovoltaic systems, where the output of the power conditioner is a stable a.c.voltage of constant frequency or a stable d.c. voltage. The efficiency is calculated from a direct measurement of input and output power in the factory. An isolation transformer is included where it is applicable.

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MS-IEC 61701:1995 SALT MIST CORROSION TESTING OF PHOTOVOLTAIC (PV) PUMPING SYSTEMS (M)

Determines the resistance of the module to corrosion from salt mist.

MS-IEC 61702:1995 RATING OF DIRECT COUPLED PHOTOVOLTAIC (PV) PUMPING SYSTEMS (M)

Defines predicted short-term characteristics (instantaneous and for a typical daily period) of direct coupled photovoltaic (PV) water pumping systems. It also defines minimum performance values to be obtained on-site. It does not address PV pumping systems with batteries. The parameters defining the photovoltaic power generating system (PVPGS) and the standard days, used to provide data in figure 1 should be in accordance with IEC standards, in preparation, on the reference solar day
.

MS-IEC 61721:1995 SUSCEPTIBILITY OF A PHOTOVOLTAIC (PV) MODULE TO ACCIDENTAL IMPACT DAMAGE (RESISTANCE TO IMPACT TEST) (M)

Determines the susceptibility of a module to accidental impact damage.

MS-IEC 61724:1995 PHOTOVOLTAIC SYSTEM PERFORMANCE MONITORING – GUIDELINES FOR MEASUREMENT, DATA EXCHANGE AND ANALYSIS (M)

Recommends procedures for the monitoring of energy-related photovoltaic (PV) system characteristics, and for the exchange and analysis of monitored data. The purpose is the assessment of the overall performance of PV systems.

MS-IEC 61725:1997 ANALYTICAL EXPRESSION FOR DAILY SOLAR PROFILES (M)

Provides a normative equation for analytically deriving a set of data points or a curve of irradiance versus time of day for a synthetic solar day.

MS-IEC 61727:2004 PHOTOVOLTAIC (PV) SYSTEMS – CHARACTERISTICS OF THE UTILITY INTERFACE (M)

This International Standard applies to utililty-interconnected photovoltaic (PV power systems operating in parallel with the utility and utilizing static (solid-state) non-islanding inverters for the conversion of DC to AC. This document describes specific recommendations for systems rated at 10 kVA or less, such as may be utilized on individual residences single or three phase. This standard applies to interconnection with the low-voltage utility distribution system.

MS-IEC 61773:1996 OVERHEADLINE TESTING OF FOUNDATIONS FOR STRUCTURES (M)

Is applicable to the testing procedures for foundations of overhead line structures

MS-IEC 61836:1997 SOLAR PHOTOVOLTAIC ENERGY SYSTEMS – TERMS AND SYMBOLS (10p)(M)

This technical report complies the terms and symbols from the published IEC standards cited in the normative references.

MS-IEC 61951-1:2006 SECONDARY CELLS AND BATTERIES CONTAINING ALKALINE OR OTHER NON-ACID ELECTROLYTES - PORTABLE SEALED RECHARGEABLE SINGLE CELLS PART 1: NICKEL-CADMIUM (M)

Specifies marking, designation, dimensions, tests and requirements for portable sealed nickel-cadmium small prismatic, cylindrical and button rechargeable single cells, suitable for use in any orientation. This International Standard is an amalgamation of all currently valid standards for portable sealed nickel-cadmium secondary single cells: IEC 60285, 1999, IEC 60509, 1988 and IEC 61440, 1997. It complies with the objective, which was to reduce the number of valid standards.

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MS-IEC 62019:2003 **ELECTRICAL ACCESSORIES – CIRCUIT-BREAKERS AND SIMILAR EQUIPMENT FOR HOUSEHOLD USE – AUXILIARY CONTACT UNITS (M)**

Applies to auxiliary electromechanical contact units associated (or intended to be associated) with circuit breakers for over current protection, and with residual current operated circuit breakers with or without integral overcurrent protection for household and similar installations having a rated voltage not exceeding 440 V a.c. and 250 C d.c. and rated current not exceeding 10 A.

The object of this standard is to state

a) The characteristics of auxiliary contact units;
b) Their electrical and mechanical requirements with respect to
    - The various duties to be performed
    - The significance of the rated characteristics and of the markings;
    - The tests to verify the rated characteristics;
c) The functional requirements to be satisfied by the auxiliary contact units with respect to
    - Environmental conditions, including those of enclosed equipments
    - Dielectric properties
    - Terminals
    - Safety of use

MS-IEC 62081:1999 **ARC WELDING EQUIPMENT - INSTALLATION AND USE (M)**

This Technical Specification describes the general conditions for the installation and use of arc welding equipment that comply with IEC 60974-1. Gives particular information for operators.

MS-IEC PAS 62111:1999 **SPECIFICATION FOR THE USE OF RENEWABLE ENERGIES IN RURAL DECENTRALIZED ELECTRIFICATION (M)**

This document offers an initial approach to a range of systems for decentralised rural electrification, based on a theoretical analysis of user requirements and of data arising from socio-economic surveys. 8 types of system were selected as responding to three types of need. The electrification systems identified were on stream renewable energy process supply systems, private systems and service systems.

MS-IEC 62133:2002 **SECONDARY CELLS AND BATTERIES CONTAINING ALKALINE OR OTHER NON-ACID ELECTROLYTES - SAFETY REQUIREMENTS FOR PORTABLE SEALED SECONDARY CELLS, AND FOR BATTERIES MADE FROM THEM, FOR USE IN PORTABLE APPLICATIONS (M)**

Specifies requirements and tests for the safe operation of portable sealed secondary cells and batteries (other than button) containing alkaline or other non-acid electrolytes, under intended use and reasonably foreseeable misuse.

MS-IEC 62305-1:2006 **PROTECTION AGAINST LIGHTNING – PART 1: GENERAL PRINCIPLES (M)**

This part of IEC 62305 provides the general principles to be followed in the protection against lightning of

- Structures including their installations and contents as well a person
- Services connected to a structure

The following cases are outside the scope of this standards:

- Railway systems;
- Vehicles, ships, aircraft, offshore installations;
- Underground high pressure pipelines;
- Pipe, power and telecommunication lines not connected to a structure

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MS-IEC 62305-3:2006 PROTECTION AGAINST LIGHTNING – PART 3: PHYSICAL DAMAGE TO STRUCTURES AND LIFE HAZARD (M)

This part of IEC 62305 provides the requirements for protection of a structure against physical damage by means of a lightning protection system (LPS), and for protection against injury to living beings due to touch and step voltages in the vicinity of an LPS (see IEC 62305-1).

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PART 2

LIST OF STANDARDS ACCORDING TO ICS CLASSIFICATION

The subject structure is based on the International classification for Standards (ICS)

01 GENERALITIES. TERMINOLOGY.STANDARDISATION. DOCUMENTATION

01.020 Terminology (principles and coordination)

01.40 Vocabularies

01.040.03 Sociology .Services. Company organization and management .Administration. Transport (Vocabularies)

MS – ISO 17000 Conformity assessment – Vocabulary and general principles

01.040.55 Packaging and distribution of goods

MS 99-2 Packaging sacks – Vocabulary - Part 2 Sacks made from thermoplastic film.
MS 100-1 Packaging sacks – Description and method of measurement for empty paper sacks - Part 1: Empty paper sacks.
MS 103 Packaging – Pictorial marking for handling of goods.
MS 1087 Pallets for materials handling - Vocabulary

01.040.75 Petroleum and related technologies (vocabularies)

MS 667-1 Petroleum Industry – Terminology
MS 667-2 Petroleum Industry – Terminology

01.040.77 Metallurgy (Vocabularies)

MS1108 Steel products- Vocabulary

01.040.83 Rubber and plastics industries (Vocabulary)

MS 36 Wood adhesives-terminology and classification

01.060 Quantities and units

MS 174 Rulers for general purpose – Specification

01.070 Colour coding

01.075 Character symbols

01.80 Graphical symbols

MS-IEC 61836 Solar photovoltaic energy systems – Terms and symbols

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01.100 Technical drawings

01.110 Technical product documentation

MS 680-1 Technical drawings-indication of dimensions and tolerances - Part1: General principles
MS 681-34 Technical drawings-General principles of presentation - Part 34: Views on mechanical engineering drawings

01.120 Standardization. General rules

01.140 Information sciences. Publishing

02 SOCIOLOGY.SERVICES.COMPANY ORGANISATION AND MANAGEMENT. ADMINISTRATION. TRANSPORT

03

03.020 Sociology. Demography

MS-ISO 26000 Guidance on Social Responsibility

MS 700 Social responsibility – Requirements for combating child labour

03.040 Labour. Employment

03.060 Finances. Banking. Monetary systems. Insurance

03.080 Services

03.100 Company organization and management

03.100.01 Company organization and management in general

MS-ISO 31000 Risk management- guidelines (Second edition

03.120 Quality

03.120.10 Quality management and quality assurance

MS-ISO 9000 Quality management systems – Fundamentals and vocabulary (Third edition)
MS-ISO 9001 Quality management systems – Requirements (Fourth edition)
MS-ISO 9004 Quality management systems – Guidelines for performance improvements (Second edition)
MS-ISO 10002 Quality management – Customer satisfaction – Guidelines for complaints handling in organization
MS-ISO 10005 Quality management systems – Guidelines for quality plans
MS-ISO 10006 Quality management systems – Guidelines for quality management in projects
MS – ISO 10012 Measurement management systems – Requirements for measurement processes and measuring equipment
MS-ISO/TR 10013 Guidelines for quality management systems documentation
MS-ISO 10015 Quality management – Guidelines for training
MS-ISO 14043 Environmental management-Life cycle assessment-Life cycle interpretation.
MS-ISO 14044 Environmental management-Life cycle assessment-Requirements and guidelines.
MS-ISO 14048 Environ management – Life cycle impact assessment-Data documentation format
MS-ISO 14050 Environmental management-Vocabulary
MS-ISO 15161 Guidelines on the application of MS-ISO 9001:2000 for the food and drink industry

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MS 17020 Conformity assessment –Requirements for the operation of various types of bodies performing inspection
MS-ISO 17021 Conformity assessment – Requirements for bodies providing audit and certification of management system
MS-ISO 17025 General requirements for the competence of testing and calibration laboratories
MS-ISO 19011 Guidelines for quality and/or environmental management systems auditing

03.120.20 Product and company certification .Conformity assessment

MS –ISO /IEC Guide 60 Conformity assessment – Code of good practice
MS – ISO 17000 Conformity assessment – Vocabulary and general principles
MS-ISO /IEC 17011 Conformity assessment – General requirements for accreditation bodies accrediting conformity assessment bodies
MS –ISO /IEC 17021-2 Conformity assessment – Requirements for bodies for providing audit and certification of management systems Part 2: Competence requirements for auditing and certification of environmental management systems

03.120.30 Applications of statistical methods

MS 350-1 Sampling procedures for inspection by attributes part1: Sampling plans indexes by acceptable quality level (AQL) for lot by lot inspection
MS 350-3 Sampling procedures for inspection by attributes Part 3: Skip-lot sampling procedures
MS 350-4 Sampling procedures for inspection by attributes Part 4: Procedures for assessment of stated quality levels (First edition)

03.140 Patents. Intellectual property

03.160 Law. Administration

03.180 Education

03.200 Leisure. Tourism

03.220 Transport

MS 720-2 Transport of dangerous goods – Packaging and packaging for road and rail transport. Part 2 – Large packaging
MS 736 Transport of dangerous goods – Intermediate bulk containers for road and rail transport

MS 845-2 Transport of dangerous goods - Emergency information systems - Part 2: Emergency information system for rail transport

MS 845-3 Transport of dangerous goods - Emergency information systems - Part 3: Emergency response guides

03.240 Postal services

07 MATHEMATICS. NATURAL SCIENCES

07.020 Mathematics

07.030 Physics. Chemistry

07.040 Astronomy. Geology. Geography

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07.060 Geology. Metrology. Hydrology

07.080 Biology. Botany. Zoology

07.100 Microbiology

07.100.30 Food microbiology

MS 289-2 Animal feeds and feeding stuffs – Methods of sampling and tests Part 2: General Methods

MS 289-4 Animal Feeds and feeding stuffs – Methods of test

11 HEALTHCARE TECHNOLOGY

11.020 Medical sciences and health care facilities in general

MS 336 Open woven bandages – Specification

11.040 Medical equipment

11.060 Dentistry

11.080 Sterilization and disinfection

MS 1844-1 Washer-disinfectors – Part1: General requirements, terms and definitions, and tests

MS 1844-2 Washer-disinfectors – Part 2: Requirements and tests for washer-disinfectors employing thermal disinfection for surgical instruments, anaesthetic equipment, bowls, dishes, receivers, utensils, glassware, etc

MS 1844-3 Washer-disinfectors – Part 3: Requirements and tests for washer-disinfectors employing thermal disinfection for human waste containers

11.080.20 Disinfectants and antiseptics

MS 66 Antibacterial liquid toilet soap – Specification

11.100 Laboratory medicine

MS ISO 15189 Medical laboratories – Particular requirements for quality and competence

11.120 Pharmaceutic

11.220 Veterinary medicine

MS1345 Code of practice for control of the use of veterinary drugs

11.140 Hospital equipment

11.160 First aid

11.180 Aids for disabled or handicapped persons

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11.200 Birth control. Mechanical contraceptives

MS 307 Natural latex rubber condoms – Requirements and test methods
MS 308 Reusable rubber contraceptive diaphragms – Specification

11.220 Veterinary medicine

13 ENVIRONMENT HEALTH PROTECTION. SAFETY

13.020 Environmental protection

13.020.01 Environment and environmental protection in general

MS 844 Environmental and environmental protection in general
MS – ISO 14055-1 Environmental management – Guidelines for establishing good practices for combatting land degradation and desertification Part 1: Good practices framework

13.020.10 Environmental management

MS-ISO 14001 Environmental management systems – Specification with guidance for use
MS-ISO 14004 Environmental management systems – General guidelines on principles, systems and support techniques
MS-ISO 14015 Environmental management systems – General guidelines on principles and support techniques
MS-ISO 14020 Environmental labels and declarations – General principles
MS-ISO 14021 Environmental labels and declarations –Self declared environmental claims (Type II environmental labelling)
MS-ISO 14031 Environmental management Environmental performance evaluation – Guidelines
MS-ISO 14032 Environmental management – Examples of environmental performance evaluation (EPE)
MS-ISO 14040 Environmental management – Life cycle assessment principles and framework
MS-ISO 14041 Environmental management – Life cycle assessment Coal and scope definition and inventory analysis
MS-ISO 14042 Environmental management – Life cycle assessment life cycle impact assessment
MS-ISO 19011 Guidelines for quality and/or environmental management systems auditing

13.020.40 Pollution, pollution control and conservation

MS 539 Industrial effluents – Tolerance limits for discharge into inland surface waters
MS 691 Tolerance limits for domestic sewage effluents discharged into in land surface waters Specification

13.020.50 Ecolabelling

MS 14025 Environmental labels and declarations – Type lll environmental labelling – Principles and procedures

13.030 Wastes

MS 59 Solid waste – Handling, transportation and disposal – Code of practice

13.030.10 Solid Wastes

MS 713 Plastic products – Guidelines for safe management and disposal
MS 1870 Composit – Specification

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13.030.20 Liquid wastes. Sludge

MS 534 Disposal of effluents from the dairy industry

13.030.30 Special wastes

MS 615 Waste within health care facilities – Handling and disposal (code of practice)
MS 675 Safety procedures for the disposal of surplus pesticides and associated toxic waste – Code of practice

13.030.40 Installations and equipment for waste disposal and treatment

MS 119 Small incinerators – Specification
MS 326 Incinerators −Standard performance requirements for incineration plant for the destruction of hospital waste – specification
MS 346 Incinerators – Methods of specifying purchaser's requirements for incineration plant for the destruction of hospital waste
MS 356 Design, specification, installation and commissioning of incineration plant for the destruction of hospital waste – code of practice
MS 359 Incinerators – Performance of incineration plant for the destruction of hospital waste – Methods of test and calculation
MS 730 Solid waste disposal sites, guidelines for design – code of practice
MS 731 Solid waste disposal sites: Guidelines for safe management – code of practice
MS 732 Effluent treatment plants – Operating conditions (code of practice**)**

13.040 Air quality

13.040.20 Ambient atmosphere

MS 740 Ambient air – Methods of sampling and test

13.040.30 Workplace atmospheres

MS 742 Workplace air- Determination of particulate lead and lead compounds –flame or electrothermal atomic absorption spectrometric method

13.040.40 Stationery source emissions

MS 737 Industrial emissions – Emissions from mobile and stationary sources

13.060 Water quality

13.060.10 Water of natural resources

MS 733 Borehole and shallow well water quality – Specification

13.060.20 Drinking water

MS 214 Drinking water – Specification
MS 678 Drinking water quality - Control and surveillance of water in public supply net works
MS 699 Bottled drinking water other than mineral water

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13.060.45 Water quality in general

MS 682-1 Water quality – Sampling Part 1: Guidance on the design of sampling programmes and sampling techniques
MS 682-3 Water quality – Sampling Part 3: Guidance on the preservation and handling of water samples
MS 682-4 Water quality – Sampling Part 4: Guidance on sampling from lakes, natural and man made
MS 682-5 Water quality – sampling Part 5: Guidance on sampling drinking water from treatment works and piped distribution systems.
MS 682-6 Water quality – Sampling Part 6: Guidance on sampling of rivers and streams
MS 682-8 Water quality –sampling Part 8: Guidance on sampling of wet deposition
MS 682-11 Water quality –sampling Part 11: guidance on sampling of groundwaters
MS 682-12 Water quality- sampling Part 12: Guidance on sampling of bottom sediments
MS 682-13 Water quality-sampling Part 13: Guidance on sampling sludge's from sewage and water treatment work
MS 682-16 Water quality-sampling part 16: Guidance on biotesting of samples
MS 682-17 Water quality –sampling Part 17: guidance on sampling suspended sediments
MS 682-19 Water quality –sampling Part 19: Guidance on sampling of marine sediments
MS 682-21 Water quality –sampling Part 21: Guidance on sampling of drinking water distributed by tankers or means other than distribution pipes**.**

13.080 Soil quality. Pedalogy

13.100 Occupational safety. Industrial hygiene

MS 125 Chemical laboratories – Code of safety
MS-ISO 45001 Occupational health and safety management systems – Requirements with guidance for use

13.110 Safety of machinery

13.120 Domestic safety

13.140 Noise with respect to human beings

MS 712-1 Acoustics – Recommended practice for the design of low noise at workplaces containing machinery Part 1: Noise control strategies
MS 712-2 Acoustics – Recommended practice for the design of low noise at workplaces containing machinery Part 2: Noise control measure
MS 712-3 Acoustics – Recommended practice for the design of low noise at workplaces containing machinery Part 3: Sound propagation and noise prediction in workrooms

13.160 Vibration and shock with respect to human beings

13.180 Ergonomics

13.200 Accident and disaster control

13.220 Protection against fire

13.220.10 Fire fighting

MS 657-1 Portable rechargeable fire extinguishers – Specification Part 1: Water type extinguishers
MS 657-2 Portable rechargeable fire extinguishers – Specification Part 2: Dry powder type extinguishers
MS 657-3 Portable rechargeable fire extinguishers – Specification Part 3: Foam type extinguishers

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MS 657-4 Portable rechargeable fire extinguishers – Specification Part 4: CO_2 type extinguishers
MS 658-1 The classification, use and control of fire-fighting equipment – Code of practice Part 1: Portable fire extinguishers
MS 658-2 The classification, use and control of fire-fighting equipment – Code of practice Part 2: Fire hose reels

13.230 Explosion protection

13.240 Protection against excessive pressure

MS 952 Live working – ladders of insulating material

13.260 Protection against electric shock

MS 952 Live working – ladders of insulating material

13.280 Radiation protection

MS 845-2 Transport of dangerous goods - Emergency information systems Part 2: Emergency information system for rail transport
MS 845-3 Transport of dangerous goods-emergency information systems Part 3: emergency response guides

13.300 Protection against dangerous goods

MS 720-2 Packaging of dangerous goods - Packaging and large packaging for road and rail
MS 736 Transportation of dangerous goods - Intermediate bulk containers for road and rail transport
MS 847 Transportation of dangerous goods operational requirements for road vehicles
MS 849 Transportation of dangerous goods designed, construction, testing

13.310 Protection against crime

13.320 Alarm and warning systems

13.340 Protective equipment

13.340.10 Protective clothing

MS 106 Welding helmets shields, goggles and welding spectacles – Specification

13.340.20 Head protective equipment

MS 626 Safety helmets for industrial use and for firemen –Specification
MS 641 Safety helmets for motor cyclists – Specification

13.340.50 Protective footwear

MS 70 Industrial heavy-duty leather boots – Specification
MS 94 Industrial and safety rubber boots – Specification
MS 123 Industrial and safety poly (vinyl chloride) boots – Specification

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17 METROLOGY AND MEASUREMENT. PHYSICAL PHENOMENA

17.020 Metrology and measurement in general

MS 774-1 Non- automatic weighing instruments Part 1: Metrological and technical requirement-test
MS 774-2 Non – automatic weighing instruments Part 2: Test report format
MS 1326 Standard voltages
MS 1327 Standard current rating
MS 1409-1 Automatic instruments for weighing road vehicles in motion and measuring axle loads Part 1: Metrological and technical requirements – Tests

MS 1409-2 Automatic instruments for weighing road vehicles in motion and measuring axle loads Part 2: Test report format
MS 1411-1 Weights of classes E1, E 2, F1, F2, M1, M1-1, M2, M2-3 AND M3 Part 1: Metrological and technical requirements
MS 1411-2 Weights of classes E1, E2, F1, F2, M1, M1-2, M2, MS 2-3 and M3 – Part 2: Test Report Format
MS 1416-2 Water meters intended for the metering of cold potable water and hot water Part 2: Test methods
MS 1418 Taximeters – metrology and technical requirements, test procedures and test report format
MS 1422-1&2 Active electrical energy meters Part1: Metrological and technical requirements Part 2: Metrological controls and performance tests
MS 1423 Medical syringes
MS 1424 Standard capacity measures for testing measuring systems for liquids other than water
MS 1426 Evidential breath analyzers
MS 1427 Vessels for commercial transactions

17.040 Linear and angular measurements

MS 174 Rulers for general purpose – Specification

17.060 Measurement of volume, mass, density, viscosity

MS: 773 Metrological and technical requirement for non-automatic, undenominated beam scales and balances subject to legal metrology control.
MS 774 Metrological and technical requirement for non-automatic, non-self or semi-self indicating, ungraduated counter scales subject to legal metrology control

17.080 Measurement of time, velocity, acceleration, angular velocity

17.100 Measurement of force, weight and pressure

17.120 Measurement of fluid flow

17.140 Acoustics and acoustic measurements

MS 173 Acoustics Noise pollution – Tolerance limits

17.140.01 Acoustic measurements and noise abatement in general

MS 697 Industrial noise affecting mixed residential and industrial area – Method for rating

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17.140.99 other standards related to acoustics

MS 173 Acoustics – Noise pollution - Tolerance limits

17.160 Vibrations, shock and vibration measurements

17.180 Optics and optical measurements

17.200 Thermodynamics and temperature measurements

17.200.20 Temperature- measuring instruments

MS 833 Thermostats for electric storage water heaters - Specification

17.220 Electricity. Magnetism. Electrical and magnetic

17.220.20 Measurement of electrical and magnetic quantities

MS 1542-51 Electricity metering – Data exchange for meter reading, tariff and load control
Part 51: Application layer protocols

MS 1543-1 Instrument transformers
Part 1: General requirements

MS 1543-3 Instrument transformers
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MS 1544-11 Electricity metering equipment (A.C) – Particular requirements
Part 11: Electromechamical meters for active energy (classes 0.5, 1 and 2)

MS 1544-61 Electricity metering equipment (A.C) – Particular requirements
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MS 1544-61 Electricity metering equipment (A.C) – Particular requirements
Part 61: Static meters for active energy (classes 0.2 S and 0.5 S)

MS 1546-4-6 Metallic cables and other passive components test methods
Part 4-6: Electromagnetic compatibility (EMC) – Surface transfer impedance – Line injection method

MS 1547-11 Electricity metering equipment (A.C) – General requirements, tests and test conditions
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17.240 Radiation measurements

19 TESTING

19.020 Test conditions and procedures in general

19.040 Environmental testing

19.060 Mechanical testing

MS 761-1 Domestic Solar Water Heaters
Part 1 Thermal performance using an outdoor test method

19.080 Electrical and electronic testing

19.100 Non-destructive testing

19.120 Particle size analysis. Sieving

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21 MECHANICAL SYSTEMS AND COMPONENTS FOR GENERAL USE

21.020 Characteristics and design of machines, apparatus, equipment

21.040 Screw threads

21.060 Fasteners

MS 322 Mild Steel nails - Specification

21.060.50 Pins. Nails

21.080 Hinges, eyelets and other articulated joints

21.100 Bearings

21.120 Shafts and couplings

21.140 Seals, glands

21.160 Springs

21.180 Housings, enclosures, other machine parts

21.200 Gears

21.220 Flexible drives and transmissions

21.240 Rotary-reciprocating mechanisms and their parts

MS 321 Zinc – Coated fencing wire (plain and barbed) – Specification

21.260 Lubrication systems

23 FLUID SYSTEMS AND COMPONENTS FOR GENERAL USE

23.020 Fluid storage devices

23.020.30 Pressure vessels, gas cylinder

MS 521 CO_2 gas cartridges (steel) – Specification

23.040 Pipeline components and pipelines

23.040.20 Plastic pipes

MS 3 Unplasticized polyvinyl chloride, (UPVC) sewer and drain-pipes and pipe fittings – Specification (second revision)

MS 4 Unplasticized polyvinyl chloride (UPVC) type 1, pressure pipes and fittings (for cold water services) − Specification (first revision)

MS 5 Unplasticized polyvinyl chloride (UPVC) pipes and pipe fittings for use above ground in

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	drainage installations − Specification (first revision)
MS 7	Unplasticized polyvinyl chloride (UPVC) pipes installation − Code of practice
MS 38	Unplasticized polyvinyl chloride (UPVC) rigid conduit and fittings for use in electrical installations − Methods of test.
MS 374	Black polyethylene pipes for the conveyance of liquids − Specification Part 1: Low density polyethylene pressure pipes Part 2: High density polyethylene pressure pipes Part 3: High Density Polyethylene PE 80 Pressure pipes. Part 5: Fittiness for purpose of the system
MS 407	Black polyethylene pipes for the conveyance of liquids − Methods of test
MS 456	Unplasticized polyvinyl chloride (UPVC) pipes and fittings − Methods of test
MS 617-1	Plastics piping systems for water supply and buried and above-ground drainage and sewerage under pressure- Plasticized poly (Vinyl chloride) (PVC-U) Part 1: General
MS 617-2	Plastics piping systems for water supply and buried and above-ground drainage and sewerage under pressure- Plasticized poly (Vinyl chloride) (PVC-U) Part 1: Pipes
MS 617-3	Pipes and fittings made of un-plasticized poly (vinyl chloride) (PVC-U) for water supply – Specification Part 3: Fittings and joints
MS 620	Structured wall pipes and fittings of UPVC for buried drainage and sewerage systems – Specification
MS 666	Components of pressure pipe systems (PVC-U) − Specification Part 1: Unplasticized poly (vinyl chloride) (PVC-U) pressure pipes Part 2: Modified poly (vinyl chloride) (PVC-M) pressure pipe systems
MS 688	Unplasticized poly (vinyl chloride) (PVC-U) soil, waste and vent pipes and pipe fittings – Specification
MS 689	The installation of polyethylene and poly (vinyl chloride) (PVC-U) and (PVC-M) pipes
MS 912-1	Plastics piping systems for hot and cold water installations-polypropylene (PP) Part 1: General
MS 912-2	Plastics piping systems for hot and cold water installations-Polypropylene (PP) Part 2: Pipes
MS 912-3	Plastics piping systems for hot and cold water installations-Polypropylene (PP) Part 3: Fittings
MS 912-5	Plastics piping systems for hot and cold water installations-Polypropylene (PP) Part 5: Fitness for purpose of the system
MS 912-7	Plastics piping systems for hot and cold water installations-Polypropylene (PP) Part 7 Guidance for the assessment of conformity

23.040.45 Plastic fittings

MS 620	Structured wall pipes and fittings of UPVC for buried drainage and sewerage systems – Specification
MS 666	Components of pressure pipe systems (PVC-U) − Specification Part 1: Unplasticized poly (vinyl chloride) (PVC-U) pressure pipes Part 2: Modified poly (vinyl chloride) (PVC-M) pressure pipe systems
MS 912-1	Plastics piping systems for hot and cold water installations-Polypropylene (PP) Part 3: Fittings

23.040.50 Pipes and fittings of other materials

23.060 Valves

23.060.01 Valves in general

MS 684	Water taps (metallic bodies) – Specification

23.060.20 Ball and plug valves

MS 686	Automatic shut off flush valves for water closets for urinal – Specification

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23.080 Pumps

23.100 Fluid power systems

23.120 Ventilators. Fans. Air-conditioners

23.140 Compressors and pneumatic machines

23.160 Vacuum technology

25 MANUFACTURING ENGINEERING

25.020 Manufacturing forming processes

25.040 Industrial automation systems

25.060 Machine tool systems

25.080 Machine tools

25.100 Cutting tools

25.120 Chipless working equipment

25.140 Hand-held tools

25.160 Welding, brazing and soldering

25.160.10 Welding processes

MS 552 Safety of welding – Code of practice

25.180 Industrial furnaces

25.200 Heat treatment

25.220 Surface treatment and coating

25.220.40 Metallic coating

MS 321 Zinc-coated fencing wire (plain and barbed) – Specification
MS 1076 Hot dip galvanized coatings on fabricated iron and steel articles – specifications and test methods
MS 1106 Fasteners – Hot dip galvanized coatings - Coatings – Specification

27 ENERGY AND HEAT TRANSFER ENGINEERING

27.010 Energy and heat transfer engineering in general

MS 877 Energy management system- Requirements with guidance for use
MS–ISO 50003 Energy management systems – Requirements for bodies providing audit and certification of energy management systems

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27.020 Internal combustion engines

MS 876 Building environment design guidelines to assess energy efficiency of new building

27.040 Gas and steam turbines. Steam engines

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27.060.10 Liquid and solid fuel burners

MS 155 Solid fuel cookstoves - Type II – Specification
MS 157 Cook-stove, liquid fuel non-pressure Type – Specification
MS 158 Cook-stoves, solid fuel - Type 1 – Specification
MS 185 Cook-stove, liquid fuel non-pressure – Methods of test
MS 480 Cook-stoves, solid fuel - Type 1 – Methods of test

27.070 Fuel cells

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27.100 Power stations in general

MS 889-1 Recommendations for small renewable energy and hybrid systems for rural electrification Part 1 General introduction to rural electrification
MS 889-2 Recommendation for small renewable energy and hybrid systems for rural electrification Part 2: From requirements to a range of electrification systems
MS 889-3 Recommendation for small renewable energy and hybrid systems for rural electrification Part 3: Project development and management.
MS 889-4 Recommendation for small renewable energy and hybrid systems for rural electrification Part 4: System selection and design
MS 889-5 Recommendation for small renewable energy and hybrid systems for rural electrification Part 5: Protection against electrical hazards**.**
MS 889-7 Recommendation for small renewable energy and hybrid systems for rural Part 7: Generators
MS 889-7-1 Recommendations for small renewable energy and hybrid systems for rural electrification Part 7-1: Generators-Photovoltaic arrays.
MS 889-8-1 Recommendations for small renewable energy and hybrid systems for rural electrification Part 8-1: Selection of batteries and battery management systems for stand-alone electrification systems - Specific case of automotive flooded led-acid batteries available in developing countries
MS 889-9-2 Recommendation for small renewable energy and hybrid systems for rural electrification Part 9-2 micro grids
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MS 62 Solar water heaters – Specification
MS 695 Battery-based photovoltaic (PV) solar home systems – Specification
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MS 710 Secondary cells and batteries for solar (PV) energy systems – Specification
MS 711 Crystalline silicon terrestrial photovoltaic (PV) modules – Design, qualification and type approval
MS 780 Solar photovoltaic (PV) water pumping systems – Specification

27.190

MS 858 Solid biofuel – Sustainable charcoal and carbonised briquettes – Specification

27.180 Wind turbine systems and other alternative sources of energy

27.200 Refrigerating technology

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MS 1093 Sawn timber of broadleaved species defects – Terms and definitions
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79.060 Wood-based panels

MS 494 Boards, softwood flooring – Specification

79.060.01 Wood-based panels in general

MS 488 Wooden ceiling and paneling boards

79.060.10 Plywood

MS 492 Plywood and composite boarders – Specification

79.060.20 Fibre and particle boards

MS 599 Fibreboard products – Specification
Part 1: Uncoated fibreboards
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79.080 Semi-manufactures of timber

MS 504-1 Wooden poles and spacer blocks – Specification part 1: softwood species

79.100 Cork and cork products

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81.020 Processes in glass industries

MS 397 Glazed ceramic sanitary-ware – Specification

81.040 Glass

MS 647-1 Safety glass for vehicles - Specification Part1: High penetration-resistant laminated safety glass
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MS 782-1 Glass in building - Basic soda lime silicate glass products
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MS 782-2 Glass in Building - Basic soda lime silicate glass products
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MS 782-3 Glass in Building - Basic soda lime silicate glass products
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MS 782-4 Glass in building - Basic soda lime silicate glass products
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MS 782-5 Glass in building - Basic soda lime silicate glass products
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MS 788 The installation of glazing in buildings – Code of practice
MS 789-1 Safety and security glazing materials for buildings
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MS 789-2 Safety and security glazing materials for buildings
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81.060 Ceramics

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81.100 Equipment for the glass and ceramics industries

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83.020 Manufacturing processes in the rubber band plastics industries

83.040 Raw materials for rubber and plastics

83.060 Rubber

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83.100 Cellular materials

MS 218 Polyurethane foam cores – Specification
MS 223 Polyurethane foams – Methods of test

83.120 Reinforced plastics

83.140 Rubber and plastic products

MS 20 Blow moulded plastic containers up to 5 litres capacity – Specification
MS 458 Rubber seals – Joint rings for water supply, drainage and sewerage pipelines material – Specification

83.140.20 Laminated sheets

MS 14 Glass-reinforced polyester (GRP) laminated sheets (profile or flat) – Specification
MS 608-1 High – pressure decorative laminates (HPL, HPDL) – Sheets based on thermosetting resins (usually called laminates) – Part 1: Introduction and general information
MS 608-2: High – pressure decorative laminates (HPL, HPDL) – Sheets based on thermosetting resins (usually called laminates) - Part 2: Determination of properties
MS 608-4 High – pressure decorative laminates (HPL, HPDL) – Sheets based on thermosetting resins (usually called laminates) – Part 4: Introduction and general information MS 608-
MS 608-6 High – pressure decorative laminates (HPL, HPDL) – Sheets based on thermosetting resins (usually called laminates) – Part : Classification and specifications for exterior-grade compact laminates of thickness 2 mmm and greater
MS 608-7 High – pressure decorative laminates (HPL, HPDL) – Sheets based on thermosetting resins (usually called laminates) – Part 7: Classification and specifications for design laminates
MS 608-8 High – pressure decorative laminates (HPL, HPDL) – Sheets based on thermosetting resins (usually called laminates) – Part 8: Classification and specifications for alternative core laminates

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83.140.99 Other rubber and plastic products

MS 13 Glass-reinforced polyester (grp) laminated products – Specification

83.160 Tyres

83.160.10 Road vehicle tyres

MS 529-1: The production of reconditioned tyres. Part 1: Definitions
MS 529-3: The production of reconditioned tyres. Part 3: Repairs
MS 529-4: The production of reconditioned tyres. Part 4: Passager car tyres
MS 529-5: The production of reconditioned tyres. Part 5: Weight truck cross-ply tyres
MS 529-6: The production of reconditioned tyres. Part 6: Bus and truck cross-ply tyres
MS 529-7: The production of reconditioned tyres. Part 7: Tyres reconditioned by the procured tread process
MS 659 Pneumatic tyres for passenger cars and luggage trailers – Specification
MS 660 Pneumatic tyres for commercial vehicles and trailers – Specification

83.180 Adhesives

MS 46 Adhesives for the laminating and finger-Jointing of timber for furniture and joinery, phenolic and aminoplastic resin – Specification
MS 590 Polyvinyl acetate dispersion adhesives for wood – Specification
MS 656 Adhesives for use with ceramic tiles and mosaics – Specification

83.200 Equipment for the rubber and plastics industries

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MS 364 Paper and board – Determination of tensile properties
Part 1: Constant rate of loading method
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MS 523 Paper – Determination of tearing strength
MS 524 Paper and board **–** Determination of bursting strength after immersion in water

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MS 279 Emulsion paint for new galvanized iron – Specification
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MS 288 Paints, primers for wood – Specification
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MS 381 Bituminous aluminium paints-Specification
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MS 389 Plaster primer (alkali-resistant, latex type) – Specification
MS 390 Alkali-resistant plaster primer (pigmented, solvent- type) – specification
MS 391 Varnish for interior use – Specification
MS 392 Varnish for wood floors – Specification
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MS 394 Aluminium finishing paint – Specification
MS 398 Paint removers – Specification
MS 891 Paints and varnishes –Visual comparison of the colour of paints.
MS 892 Paints and varnishes –Examination and preparation of test samples
MS 893 Paints and varnishes-Natural weathering of coatings-Exposure and assessment
MS 1012-1 Paints and vanishes – Evaluation of degradation of coatings – Designation of quality and size of defects, and of intensity of uniform changes in appearances
Part 1: General introduction and designation systems
MS 1012-2 Paints and vanishes – Evaluation of degradation of coatings – Designation of quality and size of defects, and of intensity of uniform changes in appearances
Part 2: Assessment of degree of blistering
MS 1012-3 Paints and vanishes – Evaluation of degradation of coatings – Designation of quality and size of defects, and of intensity of uniform changes in appearances
Part 3: Assessment of degree of rusting
MS 1012-5 Paints and vanishes – Evaluation of degradation of coatings – Designation of quality and size of defects, and of intensity of uniform changes in appearances
Part 5: Assessment of degree of flacking
MS 1012-6 Paints and vanishes – Evaluation of degradation of coatings – Designation of quality and size of defects, and of intensity of uniform changes in appearances
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87.060 Paint Ingredients

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87.060.10 Pigments and extenders

MS 819-1: Titanium dioxide pigments for paints
Part 1: Specifications and methods of test

87.060.30 Solvents

MS 378 Mineral turpentine – Specification
MS 396 Mineral solvents for paint (white spirit and related hydrocarbons solvents) – Specification

87.060.99 Other paints ingredients

MS 817 Driers for paints and vanishes-Specification
MS 823 Driers for paints and varnishes-Method of test

87.080 Inks. Printing inks

87.100 Paint coating equipment

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91.010 Construction industry

91.020 Physical planning. Town planning

91.040 Buildings

91.040.01 Buildings in general

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91.060 Elements of buildings

91.060.01 Elements of building in general

MS 788 The installation of glazing in buildings – Code of practice
MS 1050 Building construction - Accessibility and suitability of the built environment

91.060.10 Walls, Partitions, Facades

MS 791-2 The structural use of masonry – code of practice
Part 2: Structural design and requirements for the reinforced and prestressed masonry

91.060.50 Door and windows

MS 616 Glazing putty for wooden and metal window frames – Specification

91.080 Structures of buildings

MS 820 Code of practice for design loadings for buildings**.**
MS 917 Rammed earth structures - Code of practice

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91.080.10 Metal structures

MS 793-1	The structural use of steel Part 1: Limit – stage design of hot rolled steelwork
MS 794-1	The structural use of concrete
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91.080.20 Timber structures

MS 914	Timber structures-Glued limited timber-test methods for determination of physical and mechanical properties
MS 928	Wood-determination of volumetric shrinkages
MS 930	Sawn timber-test methods - Determination of ultimate strength in shearing parallel to grain
MS 934	Guidelines for the design of control measures for the street-vended foods in Africa
MS 1085-1	Wood – Methods of physical and mechanical testing – Vocabulary part1: general concepts and macrostructure

91.080.30 Masonry

MS 791-2	The structural use of masonry – Code of practice Part 2: Structural design and requirements for the reinforced and prestressed masonry

91.080.40 Concrete structures

MS 793-1	The structural use of steel Part 1: Limit-state design of hot rolled steelwork
MS 794-1	The structural use of concrete Part 1: Design

91.090 External structures

MS 504-1	Wooden poles and spacer blocks – Specification Part 1: Softwood species

91.100 Construction materials

91.100.10 Cement. Gypsum. Lime. Mortar

MS 29-1	Cement Part 1: Composition, specifications and conformity criteria for common cements
MS 29-5	Cement Part 5: Portland – Composite cement CEM LL /C – m and composite cement CEM VI
MS 85	Limes for use in building – Specification
MS 88	Solvent cement for assembly of UPVC pipe fittings – Specification
MS 92	Limes – Methods of test
MS 414	Masonry cement (without air entrainment agents) – Specification
MS 629	Asbestos-cement drain and sewer pipes – Specification
MS 627	Fibre-cement sheets for roofing and cladding (corrugated and flat) – Specification
MS 755:	Gypsum rock for the manufacture of binders – Specification
MS 756	Gypsum core cornice – Specification
MS 913	Hydrated lime for use in sugar processing-Specification
MS 1062-2	Methods of testing cement Part 2: Chemical analysis of cement
MS 1062-5	Methods of testing cement Part 5: Pozzolanicity test for pozzolanic cement
MS 1430	Packaged, dry, combined materials for mortar and concrete- Specification

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91.100.15 Mineral Materials and Products

MS 6 Burnt clay bricks – Specification
MS 175 Burnt clay bricks – Code of practice for moulding and firing
MS 777 Stabilized soil blocks – SpecificationMS 1686-1 Tests for mechanical and physical properties of aggregates
Part 1: Determination of the resistance to wear (Micro-Deval)
Part 3: Determination of loose bulk density and voids
Part 4 Determination of the voids of dry compacted filler
Part 5: Determination of water content by drying in a ventilated oven
Part 6: Determination of particle density and water absorption
Part 7 Determination of the particle density of filler – Pyknometer method
Part 8 Determination of the polished stone value
Part 10: Determination of water suction height
Part 11: Determination of compressibility and confined compressive strength of lightweight aggregates.

91.100.23 Ceramic tiles

MS 1701-1 Ceramic tiles
Part 1: Sampling and basis for acceptance
MS 1701-2 Ceramic tiles
Part 2: Determination of dimensions and surface quality
MS 1701-3 Ceramic tiles
Part 3: Determination of water absorption, apparent porosity, apparent relative density and bulk density
MS 1701-4 Ceramic tiles
Part 4: Determination of modulus of rupture and breaking strength
MS 1701-5 Ceramic tiles
Part 5: Determination of impact resistance by measurement of coefficient of restitution
MS 1701-6 Ceramic tiles
Part 6: Determination of resistance to deep abrasion for unglazed tiles
MS 1701-7 Ceramic tiles
Part 7: Determination of resistance to surface abrasion for glazed tiles
MS 1701-8 Ceramic tiles
Part 8: Determination of linear thermal expansion
MS 1701-9 Ceramic tiles
Part 9: Determination of resistance to thermal shock
MS 1701-10 Ceramic tiles
Part 10: Determination of moisture expansion
MS 1701-11: Ceramic tiles (First Edition) (3p) V
Part 11: Determination of crazing resistance for glazed tiles
MS 1701-12 Ceramic tiles
Part 12: Determination of frost resistance
MS 1701-13 Ceramic tiles
Part 13: Determination of chemical resistance
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Part 14: Determination of resistance to stains
MS 1701-16 Ceramic tiles
Part 16: Determination of slight color differences.

91.100.25 Ceramic building products

MS 161 Cement roofing products – Specification

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91.100.30 Concrete and concrete products

MS 71-1 Concrete building blocks
Part 1: Loadbearing concrete masonry units- Specification
MS 71-2 Concrete building blocks
Part 2; Nonloadbearing concrete masonry units- Specification
MS 71 Concrete building blocks – Specification
MS 309 Concrete floor and wall tiles – Specification
MS 794-2 The structural use of concrete Part 2: Materials and execution of work
MS 1125 Concrete paving blocks – specification

MS 838 Concrete works - Code of practice for minor works
MS 842 Aggregates from material sources - Aggregates for concrete - Specification

91.100.40 Products in fibre-reinforced cement

MS 495 Boards, fibre-cement – Specification
MS 627 Fibre-cement sheets for roofing and cladding (corrugated and flat) – Specification
MS 629 Asbestos-cement drain and sewer pipes – Specification

91.110.50 Binders. Sealing materials

MS 616 Glazing putty for wooden and metal window frames – Specification

91.120 Protection of and in buildings

91.120.10 Thermal insulation of buildings

MS 876 Building environment design guidelines to assess energy efficiency of new building

91.120.30 Water proofing

MS 263 Tarpaulins – Specification
MS 264 Loomstate cotton duck – Specification

91.120.40 Lightning protection

MS 310 Protection of building against lightning – Code of practice

91.140 Installations in buildings

91.140.30 Ventilation and air-conditioning systems

MS 1542-41 Electricity metering – Data exchange for meter reading, tariff and load control

91.140.60 Water supply systems

MS 348 Afridev deep-well handpump – Specification
MS 458 Rubber seals – Joint rings for water supply, drainage and sewerage pipelines material – Specification
MS 532 Borehole construction – Code of practice
MS 912-1 Plastics piping systems for hot and cold water installations-polypropylene (PP)
Part 1: General
MS 912-3 Plastics piping systems for hot and cold water installations-Polypropylene (PP) Part 3: Fittings

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91.140.70 Sanitary installations

MS 318 Cast iron brackets and supports for wash basins and sinks – Specification
MS 685 WC flushing cisterns – Specification

91.140.80 Drainage systems

MS 458 Rubber seals – Joint rings for water supply, drainage and sewerage pipelines material – Specification

91.160 Lighting

MS 889-12-1 Recommendations for small renewable energy and hybrid systems for rural electrification Part 12-1: Selection of self-ballasted lamps (CFL) for rural electrification systems and recommendations for household lighting equipment

91.180 Interior finishing

91.190 Building accessories

91.200 Construction technology

91.220 Construction equipment

93 CIVIL ENGINEERING

93.010 Civil engineering in general

93.020 Earthworks. Excavations. Foundation construction. Underground works

93.025 External water conveyance systems

93.030 External water conveyance systems
93.040 Bridge construction

93.060 Tunnel construction
93.080 Road engineering

93.080.30 Road equipment and installations

MS 317 Cast iron manhole covers, inspection covers and frames – Specification

93.100 Construction of railways

93.110 Construction of ropeways

93.120 Construction of airports

93.140 Construction of waterways and ports

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93.160 Hydraulic construction

MS 348 Afridev borehole handpumps – Specification
MS 532 Borehole construction – Code of practice

95 MILITARY ENGINEERING

95.020 Military engineering. Military affairs. Weapons

97 DOMESTIC AND COMMERCIAL EQUIPMENT ENTERTAINMENT. SPORTS

97.020 Home economics on general

97.030 Domestic electrical appliances in general

97.040 Kitchen equipment

97.040.20 Cooking ranges, working tables, ovens and stove hoods

MS 155 Cookstove, solid fuel – Type II – Specification
MS 157 Cookstove, liquid fuel non pressure – Specification
MS 158 Cookstove, solid fuel (type 1) – Specification

97.040.30 Domestic refrigeration appliances

MS 159 Cooler blocks – Specification

97.040.50 Small kitchen appliances

MS 520 Electrical appliances for heating liquids – Specification

97.060 Laundry appliances

MS 156 Irons, solid fuel pressing – Specification

97.080 Floor treatment appliances

97.100 Domestic, commercial and industrial heating appliances

97.120 Automatic controls for household use

97.130 Shop fittings

97.140 Furniture

97.145 Ladders

97.150 Non-textile floor coverings

97.160 Home textile. Linen

97.170 Body care equipment

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97.180 Miscellaneous domestic and commercial equipment

MS 186 Ballpoint pens – Specification
MS 221 Black lead pencil – Specification
MS 251 Safety wood matches – Specification
MS 252 Safety wood matches – Methods of test
MS 798 Instant noodles – Specification

97.190 Equipment for children

97.195 Items of art and handicrafts

97.200 Equipment for entertainment

97.200.01 Equipment for entertainment in general

MS 655 Gaming equipment – Specification
Part 1: Casino equipment
Part 2: Limited payout gaming equipment
Part 3: Monitoring and control systems for gaming equipment
Part 4: Chips, Plagues and Tokens
Part 5: General equipment

97.220 Sports equipment and facilities

99 (No Title)

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SUMMARY ANALYSIS OF PRINTED MALAWI STANDARDS

ACTIVITY / TYPE OF STANDARD		NUMBER OF STANDARDS PER FIELD OF ACTIVITY				TOTALS
	CHEMICALS AND TEXTILES	ENGINEERING AND MATERIALS	FOOD AND AGRICULTURE	MS/IEC ADOPTED STANDARDS	MS/ISO ADOPTED STANDARDS	
Specifications	106	386	270	116	18	896
Vocabulary	7	22	11	3	4	47
Code of practice	46	84	36	12	28	206
Sampling and test methods	78	122	105	39	5	349
TOTALS	237	614	422	170	55	1498

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COMESA HARMONIZED STANDARDS ADOPTED BY MALAWI

NO	MS NO	MS TITLE
1.	MS-ISO/IEC GIUDE 43-1	Proficiency testing by inter-laboratory comparisons Part 1: Development and operation of proficiency testing schemes
2.	MS-ISO/IEC17020:2014	General criteria for the operation of various types of bodies performing inspection
3.	MS1087:2015	Pallets for materials handling – Vocabulary
	MS1339:2016	Wool – Determination of fibre length (barbe and hauteur) using a comb sorte
4.	MS-ISO/IEC GUIDE 2:2016	Standardization and related activities – General vocabulary
5.	MS-ISO/IEC GUIDE 23:2016	Methods of indicating conformity with standards for third-party certification systems
6.	MS-ISO/IEC GUIDE 60:2016	Conformity assessment – Code of good practice
7.	MS-ISO/IEC GUIDE 68:2016	Arrangements for the recognition and acceptance of assessment results
8.	MS 321:1991	Zinc-coated steel wire for fencing
9.	MS 915-605:2012	International electro-technical vocabulary – Generation, transmission and distribution of electricity – Substations
10.	MS 915-603:2012	International electro-technical vocabulary – Generation, transmission and distribution of electricity – Power systems planning and management
11.	MS 915-602:2012	International electro-technical vocabulary – Generation, transmission and distribution of electricity – Generation
12.	MS 915-601:2012	International electro-technical vocabulary – Generation, transmission and distribution of electricity – General
13.	MS 915-421:2012	International electro-technical vocabulary – Power transformers and reactors
14.	MS 619:2016	Fruit juices and nectars
15.	MS 631:2016	Corned Beef - Specification
16.	MS 762:2015.	Structural timber – Visual strength grading – Basic principles
17.	MS 785-1:2008	Steel for the reinforcement of concrete Part 1: Plain bars
18.	MS 807:2014	Luncheon Meat
19.	MS 831-23:2016	Rotating electrical machines – Specification for the refurbishing of rotating electrical machines
20.	MS 831-22:2016	Rotating electrical machines – AC generators for reciprocating internal combustion (RIC) engine driven generating sets
21.	MS 831-11:2016	Rotating electrical machines – Thermal protection
22.	MS 831-7:2016	Rotating electrical machines – Classification of types of construction, mounting arrangements and terminal box position
23.	MS 831-5:2016	Rotating electrical machines – Degrees of protection provided by the integral design of rotating electrical machines (IP code) - Classification

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NO	MS NO	MS TITLE
24.	MS 831-4:2016	Rotating electrical machines – Methods for determining synchronous machine quantities from tests
25.	MS 831-3:2016	Rotating electrical machines – Specific requirements for turbine-type
26.	MS 831-1:2016	Rotating electrical machines – Rating and performance
27.	MS 846:2015.	Structural timber – Machine strength grading – Basic principles.
28.	MS 914:2015	Solid timber in structural sizes – Determination of some physical and mechanical properties
29.	MS 921:2015.	Wood – Determination of volumetric swelling
30.	MS 926-3:2015	Pallets for materials handling – Flat pallets Part 3: Maximum working loads
31.	MS 926-2:2015	Pallets for materials handling – Flat pallets Part 2: Performance re-quirements and selection of tests.
32.	MS 926-1:2015	Pallets for materials handling – Flat pallets Part 1: Test methods
33.	MS 927:2015.	Wood – Sampling methods and general requirements for physical and mechanical tests
34.	MS 928:2015	Wood – Determination of volumetric shrinkage
35.	MS 929:2015.	Broadleaved sawn timber – Nominal sizes
36.	MS 930:2015	Sawn timber – Test methods – Determination of ultimate strength in shearing parallel to grain
37.	MS 931:2015	Cast carbon steels for general engineering purposes
38.	MS 933-3:2016	Stainless steels for general purposes Part 3 Wire
39.	MS 932:2015	Steel for the reinforcement of pre-stressing of concrete - Vocabulary
40.	MS 933-2:2016	Stainless steels for general purposes Part 2: Semi-finished products, bars, rods and sections
41.	MS 933-1:2016	Stainless steels for general purposes Part 1: Flat products
42.	MS 934:2015	Design of control measures for street vended foods in Africa
43.	MS 935:2015	Principles for the establishment and application of microbiological crite-ria for foods
44.	MS 936:2015	Advisory list of mineral salts and vitamins compounds for use in food for infants
45.	MS 937:2015	Degermed Maize (Corn) Meal and Maize (Corn) Grits
46.	MS 949-12:2015	Reciprocating internal combustion engine driven alternating current generating sets – Emergency power supplies to safety services
47.	MS 938:2015	Sorghum flour - Specification
48.	MS 949-10:2015	Reciprocating internal combustion engine driven alternating current generating sets – Measurement of airborne noise by the enveloping surface method
49.	MS 939:2016	Food special for medical purposes

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NO	MS NO	MS TITLE
50.	MS 949-9:2015	Reciprocating internal combustion engine driven alternating current generating sets – Measurement and evaluation of mechanical vibrations
51.	MS 949-8:2015	Reciprocating internal combustion engine driven alternating current generating sets – Requirements and tests for low-power generating sets
52.	MS 942:2015	Canned Mangoes
53.	MS 941:2016	General Standard for the Labelling of and Claims for Pre-packaged Foods for Special Dietary Uses
54.	MS 949-7:2015	Reciprocating internal combustion engine driven alternating current generating sets – Technical declarations for specification and design
55.	MS 949-6:2015	Reciprocating internal combustion engine driven alternating current generating sets – Test methods
56.	MS 943:2016	Formula Foods for Use in Weight Control Diets
57.	MS 944:2015	Principles for food import and export inspection and certification
58.	MS 949-5:2015	Reciprocating internal combustion engine driven alternating current generating sets – Generating sets
59.	MS 949-4:2015	Reciprocating internal combustion engine driven alternating current generating sets – Control gear and switch gear
60.	MS 949-3:2015	Reciprocating internal combustion engine driven alternating current generating sets – Alternating current generators for generating sets
61.	MS 957-10-1:2015	Power transformers – Application guide
62.	MS 947:2015	Hydraulic turbines, storage pumps and pump-turbines Model acceptance tests
63.	MS 949-2:2015	Reciprocating internal combustion engine driven alternating current generating sets – Engines
64.	MS 957-10:2015	Power transformers – Determination of sound levels
65.	MS 948:2015	Guide to specification of hydraulic turbine control systems
66.	MS 949-1:2015	Reciprocating internal combustion engine driven alternating current generating sets – Application, ratings and performance
67.	MS 950:2015	Overhead lines – Requirements and tests for fittings
68.	MS 951:2015	Overhead lines – Requirements and tests for spacers
69.	MS 953-2:2015	Composite string insulator units for overhead lines with a nominal voltage greater than 1000 V – Dimensional and electrical characteristics
70.	MS 952:2015	Live working – Ladders of insulating material
71.	MS 953-1:2015	Composite string insulator units for overhead lines with a nominal voltage greater than 1000 V – Standard strength classes and end fittings
72.	MS 954:2015	Overhead lines – Calculation of the electrical component of distance between live parts and obstacles – Method of calculation
73.	MS 955:2015	Insulators for overhead lines – Composite line post insulators for a.c. with a nominal voltage greater than 1000 V
74.	MS 957-1:2015	Power transformers – Design and application of liquid-immersed power transformers using high-temperature insulation materials
75.	MS 959-2:2015	High voltage fuses – Expulsion fuses

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NO	MS NO	MS TITLE
76.	MS 960-2:2015	Insulation co-ordination – Application guide
77.	MS 963-3:2015	Convertor transformers – Part 3: Application guide
78.	MS 965-5:2016	Steel for the pre-stressing of concrete _ Part 5:Hot-rolled steel bars with or without subsequent processing
79.	MS 961:2015	Power cables with extruded insulation and their accessories for rated voltages above 150 kV (Urn = 170 kV) up to 500 kV (Urn = 550 kV) – Test methods and requirements
80.	MS 963-2:2015	Convertor transformers Part 3: Transformers for HVDC applications
81.	MS 965-4:2016	Steel for the pre-stressing of concrete Part 4:Strand
82.	MS 963-1:2015	Convertor transformers – Part 1: Transformers for industrial applica-tions
83.	MS 965-3:2016	Steel for the pre-stressing of concrete Part 3: Quenched and tempered wire
84.	MS 965-1:2015	Steel for the pre-stressing of concrete Part 1: General requirements
85.	MS 965-2:2016	Steel for the pre-stressing of concrete _Part 2: Cold drawn wire
86.	MS 964:2015	Live working – Guidelines for the installation of transmission line con-ductors and earth wires – Stringing equipment and accessory items
87.	MS/TR 971-4:2015	Textiles – Fibres and yarns – Determination of commercial mass of consignments Part 1: Values used for the commercial allowances and the commercial moisture regains – Technical report.
88.	MS 966:2016	Textiles – Morphology of fibres and yarns - Vocabulary
89.	MS 971-3:2015	Textiles – Fibres and yarns – Determination of commercial mass of consignments Part 3: Specimen cleaning procedures
90.	MS 967:2016	Textiles – Natural fibres – Generic names and definitions
91.	MS 969:2015	Wool – Measurement of the length of fibres processed on the worsted system, using a fibre diagram machine
92.	MS 971-2:2015	Textiles – Fibres and yarns – Determination of commercial mass of consignments Part 2: Methods for obtaining laboratory samples
93.	MS 968:2016	Textiles – Cotton fibres – Evaluation of maturity by the air flow method
94.	MS 970:2015	Wool – Determination of mean diameter of fibres – Air permeability method
95.	MS 971-1:2015	Textiles – Fibres and yarns – Determination of commercial mass of consignments Part 1: Mass determination and calculations
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