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STANDARDS
MALAYSIA

No. 3

*MECHANICAL SYSTEMS & COMPONENTS FOR
GENERAL USE, FLUID SYSTEM & COMPONENTS FOR
GENERAL USE, MANUFACTURING ENGINEERING &
ENERGY AND HEAT TRANSFER ENGINEERING*

**MALAYSIAN
STANDARDS
SECTORIAL CATALOGUE**

2007

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No. 3

***MECHANICAL SYSTEMS & COMPONENTS FOR GENERAL USE, FLUID
SYSTEM & COMPONENTS FOR GENERAL USE, MANUFACTURING
ENGINEERING & ENERGY AND HEAT TRANSFER ENGINEERING***



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INTRODUCTION

The Department of Standards Malaysia (Standards Malaysia) is the national standardisation and accreditation body.

The main function of the Department is to foster and promote standards, standardisation and accreditation as a means of advancing the national economy, promoting industrial efficiency and development, benefiting the health and safety of the public, protecting the consumers, facilitating domestic and international trade and furthering international cooperation in relation to standards and standardisation.

Malaysian Standards are developed through consensus by committees which comprise of balanced representation of producers, users, consumers and others with relevant interests, as may be appropriate to the subject in hand. These standards where appropriate are adoption of international standards. Approval of a standard as a Malaysian Standard is governed by the Standards of Malaysia Act 1996 (Act 549). Malaysian Standards are reviewed periodically. The use of Malaysian Standard is voluntary except in so far as they are made mandatory by regulatory authorities by means of regulations, local by-laws or any other similar ways.

The Department of Standards Malaysia appoints SIRIM Berhad as the agent to develop Malaysian Standards.

The Industry Standards Committees (ISCs) established by SIRIM Berhad are responsible for the development of Malaysian Standards in their respective areas, as follows:

ISC A	- Food and Agriculture
ISC B	- Chemicals and Materials
ISC C	- Consumer Products, Personal Safety and Services
ISC D	- Building and Civil Engineering
ISC E	- Electrotechnical
ISC F	- Mechanical Engineering
ISC G	- Information Technology, Communications and Multimedia
ISC H	- Petroleum and Gas
ISC J	- Plastics and Plastics Products
ISC K	- Packaging and Distribution
ISC L	- Road Vehicles
ISC M	- Fire Safety and Prevention
ISC N	- Rubber and Rubber Products
ISC W	- Occupational Health and Safety
NC Y	- Quality Management and Quality Assurance
NC Z	- Environmental Standards

More than 100 standards development committees involving more than 1500 individuals, have been established under the ISCs.

Malaysian Standards Sectorial Catalogue 2007

This sectorial catalogue lists as at July 2007, Malaysian Standards that have been established on product specifications, codes of practice, terminologies, guides and method of test on selected sectors.

New standards, revisions, amendments, addenda, errata and reconfirmed standards as well as standards that have been withdrawn are published bi-monthly in the SIRIM Berhad's newsletter Standards and Quality News.

An online system is available for searching and online purchasing. Payment can be made by credit card. The system is called the MS Online System and can be accessed at <http://www.msonline.gov.my>. The MS Online system contains over 4,000 Malaysian standards on all sectors.

List of Sectorial Catalogue 2007

1. *Quality Management System, Environmental Management System & Safety and Health Protection*
2. *Health Care Technology, Metrology and Measurement. Testing*
3. *Mechanical and Fluid System and Components. Manufacturing Engineering, Energy and Heat Transfer Engineering*
4. *Electrical Engineering & Electronics*
5. *Telecommunication, Information Technology. Office Equipment*
6. *Road Vehicles Engineering, Material Handling Equipment, Packaging & Distribution of Goods.*
7. *Textile and Leather Technology and Clothing Industry*
8. *Agriculture and Food Technology*
9. *Chemical Technology, Mining and Minerals, Petroleum and related technology & Metallurgy*
10. *Wood Technology, Glass & Ceramics Industries, Paper Technology and Paints & Colour Industries*
11. *Rubber & Plastics Industries*
12. *Constructions Materials & Building. Civil Engineering. Housekeeping. Entertainment. Sports.*

ABBREVIATIONS

MS : Malaysian Standard

MS ISO : Malaysian Standard which is identical to International Organization for Standardization (ISO) Standard. The numbering of the standard is identical to that of the ISO Standard except for the prefix.

MS ISO/IEC : Malaysian Standard which is identical to the Joint ISO and IEC Standard. The numbering of the standard is identical to that of the ISO/IEC Standard except for the prefix.

MS.....(P) : Provisional Standard

Malaysian Standard which is adopted/adapted from international, regional or foreign national standard without undergoing standards development committee deliberations due to its urgent need, as identified by the Department of Standards Malaysia. Provisional Standards are identified by a letter "P" following the MS number.

SUBJECT STRUCTURE ACCORDING TO INTERNATIONAL CLASSIFICATION OF STANDARDS

- | | |
|--|--|
| 01. Generalities. Terminologies. Standardization | 61. Clothing Industry. |
| 03. Sociology. Services. Company Organization and Management. Administration. Transport. | 65. Agriculture. |
| 07. Mathematics. Natural Sciences. | 67. Food Technology. |
| 11. Health Care Technology. | 71. Chemical Technology. |
| 13. Environment. Health Protection. Safety | 73. Mining and Minerals. |
| 17. Metrology and Measurement. Physical Phenomena | 75. Petroleum and Related Technologies. |
| 19. Testing. | 77. Metallurgy. |
| 21. Mechanical Systems and Components for General Use. | 79. Wood Technology. |
| 23. Fluid Systems and Components for General Use. | 81. Glass and Ceramics Industries. |
| 25. Manufacturing Engineering. | 83. Rubber and Plastics Industries. |
| 27. Energy and Heat Transfer Engineering. | 85. Paper Technology. |
| 31. Electronics. | 87. Paint and Colour Industries. |
| 33. Telecommunications. Audio and Video Engineering. | 91. Construction Materials and Building. |
| 35. Information Technology. Office Machines. | 93. Civil Engineering. |
| 37. Image Technology. | 95. Military Engineering. |
| 39. Precision Mechanics. Jewellery. | 97. Domestics and Commercial Equipment. Entertainment. Sports. |
| 43. Road Vehicles Engineering. | |
| 45. Railway Engineering. | |
| 47. Shipbuilding and Marine Structures. | |
| 49. Aircraft and Space Vehicle Engineering. | |
| 53. Materials Handling Equipment. | |
| 55. Packaging and Distribution of Goods. | |
| 59. Textile and Leather Technology. | |

CONTENTS

	Page
Introduction	(ii)
Malaysian Standards Sectorial Catalogue	(iii)
Abbreviation	(iii)
Subject Structure by ICS	(iv)
 MECHANICAL SYSTEMS AND COMPONENTS FOR GENERAL USE	
Characteristics and design of machines, apparatus, equipment	1
Screw threads	1
Screw threads in generalt	1
Metric screw threads	1
Special screw threads	2
Fasteners in general	3
Bolts, screws, studs	3
Rivets	4
Clamps and staples	4
Other fasteners	4
Springs	4
Chains drives and their components	4
 FLUID SYSTEMS AND COMPONENTS FOR GENERAL	
Fluid storage devices	5
Pressure vessels, gas cylinders	5
Pipeline components and pipeline in general	5
Iron and steel pipes	5
Plastics pipes	6
Metal fittings	8
Plastics fittings	8
Hoses and hose assemblies	9
Seals for pipe and hose assemblies	9
Valves	10
Valves in general	10
Pressure regulators	10
Check valves	10
Pumps	10
Cylinders	11
Ventilators. Fans. Air-conditioners	11
 MANUFACTURING ENGINEERING	
Industrial automation systems	12
Machine tool systems	12
Modular units and other devices	12
Machine tools	13
Grinding and polishing machines	13
Cutting tools	13
Cutting tools in general	13
Saws	13
Electric tools	13
Hand-operated tools	14
Other hand-held tools	14

Welding, brazing and soldering -----	14
Welding processes -----	14
Welding consumables -----	15
Welding equipment -----	15
Welded joints -----	15
Brazing and soldering -----	15
Surface treatment and coating -----	15
Metallic coatings -----	15

ENERGY AND HEAT TRANSFER ENGINEERING

Internal combustion engines -----	16
Heat pumps -----	17
Solar energy engineering -----	17
Heat recover. Thermal insulation -----	17
Numerical Listing -----	18
Index -----	20
Order Form -----	23

21. MECHANICAL SYSTEMS AND COMPONENTS FOR GENERAL USE

21.020 Characteristics and design of machines, apparatus, equipment

MS 490 : 1977

Code of practice for guarding and safe use of metal working power presses

Establishes requirements for machine design and installation, guarding, die design and setting, inspection, inspection and maintenance. This code does not apply to hot-metal presses, guillotines, shearing machines, hammers, forging presses, bulldozers and upsetters.

Price RM60

MS 491 : 1977

Code of practice for guarding and safe use of woodworking machinery

Includes requirements for installation, machine design, control, dust and waste collection, feed devices and log carriage, specific guarding of machines, inspection and maintenance, selection, training and supervision of operators.

Price RM50

MS 857 : 1983

Specification for bordeaux connections.

Specifies requirements for dimensions for dimensions, materials, inspection, testing and certification of Bordeaux connection at safe working loads.

Price RM20

21.040 Screw threads

21.040.01 Screw threads in general

MS ISO 5408 : 2003

Fasteners and screw threads – Vocabulary : Part 1 : Fundamental of screw threads

This Malaysian Standard specifies the fundamental terms and definitions, which are applicable to cylindrical screw threads with profiles (in an axial plane) based on triangles.

Price RM20



21.040.10 Metric screw threads

MS 221 : 2002

Specification for ISO metric screws threads (First revision)

This Malaysian Standard applies to parallel screw threads which major diameter ranges from 0.25 mm to 300 mm. It deals with the general plan for metric screw threads having the ISO basic profile. This standard supersedes MS 221 : 1974.

Price RM10

MS ISO 68-1 : 2002

ISO General purpose screw threads - Basic profile - Part 1 : Metric screw threads

This part of MS ISO 68 specifies the basic profile for ISO general purpose metric screw threads (M).

Price RM10

MS ISO 261 : 2002

ISO general purpose metric screw threads - General plan

This Malaysian Standard specifies ISO general purpose metric screw threads (M) having basic profile according to MS ISO 68-1. Basic dimensions are given in MS ISO 724. For tolerances see MS ISO 965-1.

Price RM10

MS ISO 262 : 2002

ISO general purpose metric screw threads - Selected sizes for screws, bolts and nuts

This Malaysian Standard specifies selected sizes for screws, bolts and nuts in the diameter range from 1 mm to 64 mm of ISO general purpose metric screw threads (M) having basic profile according to MS ISO 68-1.

Price RM10

MS ISO 724 : 2002

ISO general purpose metric screw threads - Basic dimensions

This Malaysian Standard specifies the basic dimensions, in millimetres, of ISO metric screw threads in accordance with MS ISO 261. The values refer to the basic profile in accordance with MS ISO 68.

Price RM20

MS ISO 965-1 : 2002

ISO general purpose metric screw threads - Tolerances - Part 1 : Principles and basic data

This part of Malaysian Standard specifies the basic profile for ISO general purpose metric screw threads (M) conforming to ISO 261. The tolerance system refers to the basic profile in accordance with ISO 68-1. This standard supersedes MS 220 : 1974.

Price RM30



MS ISO 965-2 : 2003**ISO general purpose metric screw threads – Tolerances – Part 2 : Limits of sizes for general purpose external and internal screw threads – Medium quality**

This part of ISO 965 specifies limits of sizes for pitch and crest diameters for ISO general purpose metric screw threads (M) conforming to ISO 262 having basic profile according to ISO 68 – 1. The limits of sizes for the tolerance quality specified are derived from the fundamental deviations and tolerances specified in ISO 965 – 1.

Price RM10

MS ISO 965-3 : 2003**ISO general purpose metric screw threads – Tolerances – Part 3 : Deviations for constructional screw threads**

This part of MS ISO 965 specifies deviations for pitch and crest diameters for ISO general purpose metric screw threads (M) conforming to ISO 261 having basic profile according to ISO 68-1. The deviations specified are derived from the fundamental deviations and tolerances specified in MS ISO 965-1.

Price RM10

MS ISO 965-4 : 2003**General purpose metric screw threads – Tolerances – Part 4 : Limits of sizes for hot-dip galvanized external screw threads to mate with internal screw threads tapped with tolerance position H or G after galvanizing**

This part of MS ISO 965 specifies deviations and limits of sizes for pitch and crest diameters for ISO general purpose metric external screw threads conforming to ISO 262 having a basic profile according to ISO 68-1. External screw threads according to this part of MS ISO 965 are intended to mate with internal screw threads tapped with tolerance position H or G after hot dip galvanizing.

Price RM10

MS ISO 965-5 : 2003**ISO general purpose metric screw threads – Tolerances – Part 5 : Limits of sizes for internal screw threads to mate with hot-dip galvanized external screw threads with maximum size of tolerance position h before galvanizing**

This part of MS ISO 965 specifies deviations and limits of sizes for pitch and crest diameters for ISO general purpose metric internal screw threads conforming to ISO 262 having basic profile according to ISO 68-1. Internal screw threads according to this part of MS ISO are intended to mate with screw threads with maximum size of tolerance position h before hot-dip galvanizing.

Price RM10

MS ISO 1502 : 2003**ISO general-purpose metric screw threads – Gauges and gauging**

This Malaysian Standard gives detail for the manufacture and use of gauges for checking ISO general-purpose screw threads with a basic profile in accordance with ISO 68.

Price RM40

MS ISO 2901 : 2003**ISO metric trapezoidal screw threads – Basic profile and maximum material profiles**

This Malaysian Standard specifies the basic profile and maximum material profiles of ISO metric trapezoidal screw threads.

Price RM10

MS ISO 2902 : 2003**ISO metric trapezoidal screw threads – General plan**

This Malaysian Standard specifies a series of diameter and pitch combinations for ISO metric trapezoidal screw threads having the basic profile according to MS ISO 2901.

Price RM10

MS ISO 2903 : 2003**ISO metric trapezoidal screw threads – Tolerances**

This Malaysian Standard specifies a tolerance system for metric trapezoidal screw threads in accordance with MS ISO 2902. The tolerances refer to the basic profile, MS ISO 2901. The tolerance system does not apply to trapezoidal screw threads with special requirements on axial displacement, for example lead screws.

Price RM20

MS ISO 2904 : 2003**ISO metric trapezoidal screw threads – Basic dimensions**

This Malaysian Standard specifies the basic dimensions for ISO metric trapezoidal screw threads according to MS ISO 2902. The values refer to the basic profiles according to ISO 2901.

Price RM20

21.040.30**Special screw threads**

MS ISO 7-1 : 2003**Pipe threads where pressure-tight joints are made on the threads – Part 1: Dimensions, tolerance and designation**

This part of MS ISO 7 specifies the requirements for thread form, dimensions, tolerances and designation for jointing pipe threads, sizes 1/16 to 6 inclusive, for joints made pressure-tight by the mating of the threads. These threads are taper external, parallel internal or taper internal and are intended for use with pipes suitable for threading and for valves, fittings or other pipeline equipment interconnected by threaded joints. An appropriate jointing medium should be used on the thread to ensure pressure-tight joints.

Price RM20

MS ISO 7-2 : 2003**Pipe threads where pressure-tight joints are made on the threads – Part 2 : Verification by means of limit gauges**

This part of MS ISO 7 specifies a process using limit gauges, for the validation of taper internal and external three' and parallel internal threads on piping systems components and other products, the dimensions and tolerances which are detailed in MS ISO 7-1. The gauging system described may not be suitable, without special precautions, for gauging of threads on injection moulded plastic workpieces. This part of MS ISO 7 does not cover completely all the requirements necessary for full control of thread quality a dimensions.

Price RM40

MS ISO 228-1 : 2003**Pipe threads where pressure-tight joints are not made on the threads – Part 1: Dimensions, tolerances and designation**

This part of MS ISO 228 specifies the requirements for thread form, dimensions, tolerances and designation for fastening pipe threads, thread sizes 1/16 to 6 inclusive. Both internal and external threads are parallel threads, intended for the mechanical assembly of the component parts of fittings, cocks and valves, accessories, etc. These threads are not suitable as jointing threads where a pressure-tight joint is made on the thread. If assemblies with such threads must be made pressure-tight, this should be effected by compressing two tightening surface outside the threads, and by interposing an appropriate seal. NOTES : For pipe threads where pressure-tight joints are made on the threads, see MS ISO 7-1. : MS ISO 228-2 gives details of methods for verification of fastening thread dimensions and form, and recommended gauging systems.

Price RM20

MS ISO 228-2 : 2003

Pipe threads where pressure-tight joints are not made on the threads – Part 2: Verification by means of limit gauges

This part of MS ISO 228 specifies the verification, by means of limit gauges, of cylindrical threads, the dimensions and tolerances of which are given in MS ISO 228-1. For industrial applications (see for example ISO 1179), it may be necessary to carry out additional checks. Since this 55° profile has different elements to be verified, it is necessary to provide for several GO and several NOT GO gauges:

a) the threaded GO gauges (see clauses 6 and 7) shall ensure that the profile of the machined piece does not exceed the maximum of material provided for by the tolerances applied to the dimensions of the profile defined by MS ISO 228-1;

b) the threaded NOT GO gauges for the threads of the pieces (see clauses 6 and 7) fix the minimum material limit on the flanks of the thread. **NOTE.** Reference checks may be carried out in specialized laboratories.

Price RM20

21.060.01 Fasteners in general

MS ISO 1891 : 2003

Fasteners and screw threads – Vocabulary: Part 2: Terminology and nomenclature

This Malaysian Standard specifies the terminology and nomenclature of bolts, screws, nuts and accessories, which are recommended for use unless otherwise specified in the appropriate product standard. At present, not all of the fasteners and accessories listed are covered by Malaysian Standard publications. The drawings are essentially diagrammatic, in particular those showing bolts and screws having special characteristics dealt with, for example, in Clauses 18 and 19. However, it is recommended that these drawings be used as a base whenever possible.

Price RM50

21.060.10 Bolts, screws, studs

MS 739 : 1981

Specification for hot-dip galvanized coatings on threaded fastness

Specifies requirements and test methods for steel bolts, screws, nuts, and other fasteners having ISO metric coarse thread in the nominal size range M8 to M36 inclusion. Includes definitions of terms.

Price RM20

MS ISO 225 : 2003

Fasteners and screw threads – Vocabulary: Part 3: Symbols and designation of dimensions of bolts, screws, studs and nuts.

This Malaysian Standard specifies the method of dimensioning bolts, screws, studs and nuts, recommended for use unless otherwise specified in the appropriate product standards. It includes common symbols and describes the feature. **NOTE :** The figures of the fasteners in this Malaysian Standard are only for examples.

Price RM20

MS ISO 898-1 : 2003

Mechanical properties of fasteners made of carbon steel and alloy steel : Part 1 : Bolts, screws and studs

This part of MS ISO 898 specifies the mechanical properties of bolts, screws and studs made of carbon steel and alloy steel when tested at an ambient temperature range of 10°C to 35°C.

Price RM40

MS ISO 898-2 : 2003

Mechanical properties of fasteners - Part 2 : Nuts with specified proof load values - Coarse thread

This Malaysian Standard specifies the mechanical properties of nuts with specified proof load values when tested at room temperature (see ISO 1). Properties will vary at higher and lower temperature.

Price RM20

MS ISO 898-5 : 2003

Mechanical properties of fasteners made of carbon steel and alloy steel - Part 5 : Set screws and similar threaded fasteners not under tensile stresses

This part of MS ISO 898 specifies the mechanical properties of set screws and similar threaded fasteners not under tensile stresses with nominal thread diameters from 1,6 mm up to and including 24 mm. which are made of carbon steel or alloy steel.

Price RM20

MS ISO 898-6 : 2003

Mechanical properties of fasteners - Part 6 : Nuts with specified proof load values - Fine pitch thread

This part of MS ISO 898 specifies the mechanical properties of nuts with specified proof load values when tested at an ambient temperature range of + 10°C to + 35°C. Mechanical and physical properties will vary with respect to temperature and property class.

Price RM20



MS ISO 898-7 : 2003

Mechanical properties of fasteners - Part 7: Torsional test and minimum torques for bolts and screws with nominal diameters 1 mm to 10 mm

This part of MS ISO 898 specifies a torsional test for the determination of the breaking torque of bolts and screws with nominal diameters 1 mm to 10 mm with property Classes 8.8 to 12.9 in accordance with 18°, 1898-1. The test applies to bolts and screws with thread less than M3 for which no breaking and proof loads are indicated in MS ISO 898-1, as well as to short bolts and screws with nominal diameters 3 mm to 10 mm which cannot be subjected to a tensile test.

Price RM10

MS ISO 4026 : 2005

Hexagon socket set screws with flat point

This Malaysian Standard specifies the characteristics of hexagon socket set screws with flat point and threads from M1,6 up to and including M24 and of product grade A.

Price RM10

MS ISO 4027 : 2005

Hexagon socket set screws with cone point

This Malaysian Standard specifies the characteristics of hexagon socket set screws with cone point and threads from M1,6 up to and including M24 and of product grade A.

Price RM10

MS ISO 4028 : 2005

Hexagon socket set screws with dog point

This Malaysian Standard specifies the characteristics of hexagon socket set screws with dog point and threads from M1.6 up to including M24 and of product grade A.

Price RM10

MS ISO 4029 : 2005

Hexagon socket set screws with cup point

This Malaysian Standard specifies the characteristics of hexagon socket set screws with cup point and threads from M1.6 up to including M24 and of product grade A.

Price RM20

21.060.40 Rivets

MS 593 : 1979

Specification for performance requirements of hot-forged rivets
Applies to carbon steel rivets of nominal diameter up to 48 mm. Mechanical tests to be conducted include tensile test, hardness test, bend test and hot flatter test.

Price RM10

21.060.70 Clamps and staples

MS 823 : 2004

Wire rope grips – Specification (First revision)

This Malaysian Standard specifies the requirements for wire rope grips used for clamping wire ropes or steel wire strands.

Price RM20

MS 945 : 1984

Specification for earth and bonding clamps

Prescribes the size ranges, performance and certain mechanical features including the provision of suitable earth conductor connecting facilities. Metal clamps and clips referred are those used to connect the earth or bonding conductor of an electrical

installation to cylindrical surfaces such as metal pipes and metal cable sheaths.

Price RM20

21.060.99 Other fasteners

MS 823 : 2004

Wire rope – Specification (First revision)

This Malaysian Standard specifies the manufacturing requirements for wire rope grips of diameter sizes 6 mm to 56 mm.

Price RM20

21.160 Springs

MS 1108 : 1988

Specification for suspension coil springs for automotive use

Specifies the material, dimension and performance requirements for cylindrical coil compression springs made from round bars for use in the suspension system of motor vehicles.

Price RM10

MS 1861 : 2005

Spring units for mattresses – Specification

This Malaysian Standard specifies requirements for open coil and pocketed mattresses spring units used for the construction of spring interior mattresses and includes performance tests.

Price RM20

21.220.30 Chain drives and their components

MS 521 : 1986

Specification for general purpose transmission precision roller chains and chainwheels (First revision)

Applies to steel, short pitch, transmission precision roller chains of simplex, duplex and triplex construction in metric series, together with associated chainwheels. Dimensions and tolerances, chain breaking loads and recommended marking requirements for both chains and chainwheels are specified.

Price RM20

23. FLUID SYSTEMS AND COMPONENTS FOR GENERAL USE

23.020 Fluid storage devices

MS 1241 : 1991

Specification for fibreglass water tanks - Effective capacity of less than 2000 litres

This specification applies to tanks subjected only to hydrostatic head of water and intended for storage of potable water, in systems connected to public mains. Tanks shall be used indoor. The tanks are designed for domestic and commercial use only. Nominal capacity of tanks shall be less than 2000 litres.

This specification only covers the use of polyester resin in wet lay-up system, excluding sectional panel and cast-in-situ tanks. The tank has to be gelcoated and protected from ultraviolet light by ultraviolet stabilizers.

Price RM30

23.020.30 Pressure vessels, gas cylinders

MS 1464 : 1999

Vocabulary on gas cylinder

Establishes the terminology used in the field of gas cylinders. It also gives definitions relating to pressures and gases in Appendix A and Appendix B respectively. This standard is technically equivalent to ISO 10286 : 1992.

Price RM20

MS 1512 : 2001

Cylinders for dissolved acetylene - Periodic inspection and maintenance

Specifies the minimum requirements for periodic inspection and maintenance to verify the integrity of acetylene cylinders for further service, regardless of the method of manufacture of the shell. It does not exclude the application of additional national requirements.

Price RM30

MS ISO 3807 : 1998

Dissolved acetylene cylinders – Basic requirements

This Malaysian Standard is identical with ISO 3807 : 1977. The standard specifies the basic requirements for dissolved acetylene cylinders with a maximum nominal water capacity of 160 ℓ, the procedure for type testing and the method for determining the porosity of the porous mass. It does not include details of design for the cylinder shell as these are specified in other ISO standards such as ISO 4705 or ISO 4706.

Price RM20

MS ISO 9809-1 : 2005

Gas cylinders – Refillable seamless steel gas cylinders – Design, construction and testing : Part 1 : Quenched and tempered steel cylinders with tensile strength less than 1 100 MPa

This Malaysian Standard specifies minimum requirements for the material, design, construction and workmanship, manufacturing processes and tests at manufacture of refillable quenched and tempered seamless steel gas cylinders of water capacities from 0,5 l up to and including 150 l for compressed, liquefied and dissolved gases exposed to extreme world-wide ambient temperatures (normally between - 50°C and +65°C).

Price RM50

MS ISO 11625 : 2005

Gas cylinders – Safe handling

This Malaysian Standard specifies requirements for safe handling, use and storage of gas cylinders for permanent, liquefied or dissolved compressed gases. This standard applies to gas cylinder sizes from 0.5 L to 150 L water capacity.

Price RM20

MS ISO 22991 : 2005

Gas cylinders – Transportable refillable welded steel cylinders for liquefied petroleum gas (LPG) – Design and Construction

This Malaysian Standard specifies minimum requirements concerning materials, design, construction and workmanship, procedure and test at manufacture of transportable refillable welded steel liquefied petroleum gas (LPG) cylinders of water capacity up to and including 150 l, exposed to ambient temperatures.

Price RM40

23.040.01 Pipeline components and pipeline in general

MS 1063 : 2002

Plastics piping systems for soil, ventilation and waste discharge (low and high temperature) within the building structure – Unplasticized poly(vinyl chloride) (PVC-U): Part 1: Specifications for pipes, fittings and the system (First revision)

This Malaysian Standard specifies the requirements for pipes, fittings and the system of unplasticized poly (vinyl chloride) (PVC - U) piping systems in the field of soil, ventilation and waste discharge (low and high temperature) inside building.

Price RM50

23.040.10 Iron and steel pipes

MS 636 : 1984

Specification for malleable cast iron screwed pipe fittings for steam, air, water, gas and oil

Covers materials, tests and dimensions of plain and reinforced fittings suitable for working pressures up to 1.380 MN/m squared for water and 1.035 MN/m squared for steam, air, gas and oil.

Price RM40

MS 709 : 1981

Specification for cast iron non-pressure pipes and fittings

Covers requirements, definitions and test methods for pipe and fittings of nominal diameters up to 150 mm manufactured by sand cast or spun process, with type A or type B sockets.

Price RM40

MS 862 : 1983

Specification for welded and seamless carbon steel pipes for general pressure purposes

Specifies dimensions, materials, various mechanical strength and other requirements for pipes of nominal bores in the range 6 mm - 120 mm.

Price RM30

MS 863 : 2004**Plane end, screwed and socketed welded steel pipes (6mm to 150mm) - Specification**

This Malaysian Standard applies to plain end, screwed and socketed welded steel pipes suitable for screwing to MS ISO 7-1 pipe threads of nominal diameter of 6 mm to 150 mm inclusive.

Price RM20

MS 1841 : 2005**Specification for seamless, welded and heavily cold worked austenitic stainless steel pipes**

This Malaysian Standard covers seamless, straight-seam welded and heavily cold worked welded austenitic stainless steel pipe intended for high-temperature and general corrosive service.

Price RM70

MS 1843 : 2005**Specification for castings, austenitic, austenitic-ferritic (duplex), for pressure-containing parts**

This Malaysian Standard covers austenitic and austenitic-ferritic (duplex) steel castings for valves, flanges, fitting, and other pressure-containing parts.

Price RM40

23.040.20 Plastics pipes

MS 628 : Part 1 : 1999**Specification for unplasticised PVC (uPVC) pipes for water supply : Part 1 : Pipes (First revision)**

Specifies the requirements for unplasticised PVC pipes for pressure application for use in cold water services or potable water. The pressure rating of the pipes shall be of PN 9, PN 12 or PN 15 or unless specified otherwise. The pipes shall be supplied in standard 6 m lengths with an integral socket formed on one end to provide for jointing by mechanical rubber ring or solvent weld joints. The plain end shall be chamfered to facilitate insertion during jointing and witness mark shall be put at the spigot end of the pipe. Other lengths may be supplied as agreed upon between purchaser and supplier. The pipes shall conform to the standards as stated unless specifically specified otherwise. Rubber ring joints shall be manufactured for pipe sizes of 80 mm and above. For pipe sizes below 80 mm, the plain end or solvent weld joint pipes shall be manufactured. This standard supersedes MS 628 : 1982.

Price RM40

Amendment 1 : 2001

MS 628 : Part 2 : Section 2.1 : 1999**Specification for unplasticised pvc (uPVC) pipes for water supply : Part 2 : Joints and fittings for use with unplasticised pvc pipes : Section 2.1 : uPVC joints and fittings**

Specifies the requirements for unplasticised PVC joints and fittings made principally of unplasticised polyvinyl chloride and of which one or more of the joints are intended for unplasticised PVC pressure pipes complying with MS 628 : Part 1. Joints complying with the standard may be either purpose made socket formed on the pipe complying with MS 628 : Part 1, or detachable couplers and other fittings, which are injection, moulded. This Malaysian Standard supersedes MS 923 : Part 1 : 1984, Specification for unplasticised PVC pipe for pressure pipe : Part 1 : Injection moulded unplasticised PVC fitting for solvent welding for use with pressure pipe, including potable water supply and MS 923 : Part 3 : 1989, Specification for unplasticised PVC pipe for pressure pipe : Part 3 : Mechanical joint & fitting principally of unplasticised PVC.

Price RM40

MS 628 : Part 2 : Section 2.2 : 1999**Specification for unplasticised pvc (uPVC) pipes for water supply : Part 2 : Joints and fittings for use with unplasticised PVC pipes : Section 2.2 : Solvent cement**

This standard specifies the requirements for solvent cement, supplied in cans or tubes for jointing unplasticised PVC pressure pipes complying with the requirements of MS 628 : Part 1 and MS 762, unplasticised PVC fittings complying with the requirements of BS 4346 : Part 1 and unplasticised PVC pipes and fittings complying with the requirements of BS 5481. The solvent cement is also suitable, along with solvent cement complying with the requirements of BS 6209, for jointing products complying with the requirements of BS 4514, BS 4576 : Part 1 and BS 4660. This standard supersedes MS 923 : Part 2 : 1984, Specification for joints and fittings for use with unplasticised PVC pressure pipes : Part 2 : Solvent cement.

Price RM20

MS 628 : Part 3 : 1999**Specification for unplasticised pvc (upvc) pipes for water supply : Part 3 : Guide for installation**

This standard sets out recommended method of handling and installing unplasticised PVC pipes for water supply.

Price RM30

MS 762 : 1982**Specification for unplasticized PVC pipe for industrial use**

Specifies materials to be used, classification of pipes, physical and mechanical properties. Includes test methods for sampling, marking and storage of pipes.

Price RM20

MS 978 : 1985**Specification for plastics waste pipe and fittings**

This standard covers plastic materials as stated : (a) acrylonitrile-butadiene-styrene (ABS) (b) modified unplasticised polyvinyl chloride (MUPVC) (c) polypropylene (PP) (d) polyethylene (PE) intended to convey normal domestic effluent.

Price RM40

MS 979 : Part 1 : 1985**Specification for unplasticized sewerage pipes and fittings : Part 1 : Pipes of diameter 100 millimeter and 155 millimeter**

This standard specifies material, colour, dimensions and testing of products for the conveyance of normal domestic effluents and surface water. Applies to product laid under gardens, fields, driveway, yards and roads other than main roads. For 100 millimeter and 155 millimeter in diameter

Price RM40

MS 979 : Part 2 : 1985**Specification for unplasticized PVC underground sewerage pipes and fittings : Part 2 : Pipes of diameter 200 millimetres and above**

As in Part 1 of this standard but for diameters ranging from 200 mm to 630 mm.

Price RM30

MS 1035 : 1986**Code of practice for unplasticized PVC pipework for the conveyance of liquid under pressure**

This Malaysian Standards gives guidance on the proper application and installation of UPVC (unplasticized polyvinyl chloride) pipes for the conveyance of liquid under pressure.

Price RM30

MS 1058 : Part 1 : 2005**Polyethylene (PE) Piping systems for water supply : Part 1 : General (Fourth revision)**

This Part of Malaysian Standard specifies the general aspects of polyethylene (PE) piping systems (mains and service pipes) intended for the conveyance of water for human consumption, including raw water prior to treatment. It also specifies the test parameters for the test methods referred to in this standard. In conjunction with other Parts of MS 1058, it is applicable to PE pipes, their joints and to joints with components of PE other materials intended to be used under the following conditions:

- a) a maximum operating pressure, MOP, up to 25 bar and ;
- b) an operating temperature of 20°C as reference temperature

This standard supersedes MS 1058 : Part 1 : 2000

Price RM20

MS 1058 : Part 2 : 2005**Polyethylene (PE) Piping systems for water supply : Part 2 : Pipes (Fourth revision)**

This Malaysian Standard specifies the characteristics of pipes made from polyethylene (PE), intended for the conveyance of water for human consumption, including raw water prior to treatment. It also specifies the test parameters for the test methods referred to in this standard. In conjunction with other parts of this standard it is applicable to PE pipes, their joints and to joints with components of PE and other materials intended to be used under the following conditions:

- a) a maximum operating pressure, MOP, up to 25 bars and ,
- b) an operating temperature of 20°C as reference temperature

This standard supersedes MS 1058 : Part 2 : 2000.

Price RM20

MS 1419 : Part 4 : 1998**Specification for acrylonitrile butadiene styrene (ABS) pipes and fittings for pressure applications : Part 4 : Installation of ABS pipe system**

This Malaysian Standard specifies requirements and sets out recommended methods for installing acrylonitrile butadiene styrene (ABS) pipeline, above or below ground, for both pressure and non-pressure applications. Information is included on the selection, storage and handling, of ABS pipes.

Price RM50

MS ISO 265-1 : 2003**Pipes and fittings of plastics materials – Fittings for domestic and industrial waste pipes – Basic dimensions: Metric series – Part 1: Unplasticized poly(vinyl chloride) (PVC-U)**

This Malaysian Standard is identical with ISO 265-1:1988. This Malaysian Standard specifies the series of diameters and the formula for calculation of the dimensions common to the main types of fittings with spigot ends, socket fittings and socket fittings with curved (swept) entries of unplasticized poly(vinyl chloride) (PVC-U) for domestic and industrial waste pipes, regardless of the method of manufacture (with the exception of fittings fabricated from pipes) and of the composition.

Price RM30

MS ISO 580 : 2003**Injection-moulded unplasticized poly(vinyl chloride) (PVC-U) fittings – Oven test – Test method and basic specifications**

This Malaysian Standard is identical with ISO 580:1990. This Malaysian Standard specifies a method to establish the quality of injection-moulded unplasticized poly(vinyl chloride) (PVC-U) fittings using an oven. It applies both to pressure fittings and to non-pressure fittings used for drainage applications, as well as to flanged fittings and fittings incorporating elastomeric sealing rings and to fittings consisting of the assembly of a number of moulded parts.

Price RM10

MS ISO 2505-1 : 2002**Thermoplastics pipes – Longitudinal reversion – Part 1: Determination methods**

This part of MS ISO 2505 specifies two methods for determining the longitudinal reversion of thermoplastics pipes, to be carried out in liquid (method A) or in air (method B). In case of disagreement, method A is to be used as the reference method.

Price RM10

MS ISO 2505-2 : 2002**Thermoplastics pipes – Longitudinal reversion – Part 2: Determination parameters**

This part of MS ISO 2505 specifies the parameters for the determination of the longitudinal reversion of thermoplastics pipes in accordance with methods A and B specified in MS ISO 2505-1, i.e. using a liquid bath or an air oven.

Price RM20

MS ISO 2507-1 : 2002**Thermoplastics pipes and fittings – Vicat softening temperature – Part 1: General test method**

This part of MS ISO 2507 specifies a general method for determining the Vicat softening temperature of thermoplastics pipes and fitting. It includes the adaptation of method B of ISO 306: 1994, using a force of 50 N.

Price RM10

MS ISO 2507-2 : 2002**Thermoplastics pipes and fittings – Vicat softening temperature – Part 2: Test conditions for unplasticized poly(vinyl chloride) (PVC-U) or chlorinated poly(vinyl chloride) (PVC-C) pipes and fittings and for high impact resistance poly(vinyl chloride) (PVC-HI) pipes**

This part of MS ISO 2507 specifies the particular test conditions for determining the Vicat softening temperature (VST) of unplasticized poly(vinyl chloride) (PVC-U) or chlorinated poly(vinyl chloride) (PVC-C) pipes and fittings and of high impact resistance poly(vinyl chloride) (PVC-H) pipes.

Price RM10

MS ISO 3127 : 2002**Thermoplastics pipes – Determination of resistance to external blows – Round-the-clock method**

This Malaysian Standard specifies a method for the determination of the resistance to external blows of thermoplastics pipes of circular cross-section; it is called the round-the-clock method.

Price RM20

MS ISO 4065 : 2003**Thermoplastics pipes – Universal wall thickness table**

This Malaysian Standard specifies the relationship between the nominal wall thickness and the nominal outside diameter of thermoplastics pipes. It is applicable to smooth thermoplastics pipes of constant circular cross-section along with the whole length of the pipe, whatever their method of manufacture, their composition or their intended application.

Price RM20

MS ISO 9080 : 2004**Plastics piping and ducting systems - Determination of the long-term hydrostatic strength of thermoplastics materials in pipe form by extrapolation**

This standard describes a method for estimating the long-term hydrostatic strength of thermoplastics materials by statistical extrapolation.

Price RM40

MS ISO 9852 : 2002**Unplasticized poly(vinyl chloride) (PVC-U) pipes - Dichloromethane resistance at specified temperature (DCMT) – Test method**

This Malaysian Standard specifies a method for determining the resistance of unplasticized PVC pipes to dichloromethane at a specified temperature (DCMT).

Price RM10

MS ISO 9853 : 2003**Injection-moulded unplasticized poly(vinyl chloride) (PVC-U) fittings for pressure pipe systems – Crushing test**

This Malaysian Standard specifies a crushing test to determine the percentage deformation of injection-moulded unplasticized poly(vinyl chloride) (PVC-U) fittings and recommends a basic specification. It applies to injection-moulded PVC-U fittings for pressure pipelines, fittings with elastomeric sealing rings.

Price RM20

MS ISO 11173 : 2002**Thermoplastics pipes – Determination of resistance to external blows – Staircase method**

This Malaysian Standard specifies a method for determining the resistance to external blows of thermoplastics pipes of circular cross-section; it is called the staircase method.

Price RM20

MS ISO 11922-1 : 2003**Thermoplastics pipes for the conveyance of fluids – Dimensions and tolerances – Part 1 : Metric series**

This Malaysian Standard is identical with ISO 11922-1 : 1997. This Malaysian Standard specifies tolerance grades for the outside diameter, out-of-roundness and wall thickness of metric thermoplastics pipes for the conveyance of fluids and manufacture with nominal outside diameters and nominal pressure. It is applicable to smooth thermoplastics pipes of constant circular cross-section along the whole length of the pipe, whatever the method of manufacture, the pipe material or the intended application.

Price RM30

MS ISO 11922-2 : 2003**Thermoplastics pipes for the conveyance of fluids – Dimensions and tolerances – Part 2 : Inch-based series**

This Malaysian Standard is identical with ISO 11922-2:1997. This Malaysian Standard specifies tolerance grades for the outside diameter, out-of-roundness and wall thickness of inch-based thermoplastics pipes for the conveyance of fluids and manufacture with nominal outside diameters and nominal pressure.

Price RM30

MS ISO 12162 : 2003**Thermoplastics materials for pipes and fittings for pressure applications – Classification and designation – Overall service (design) coefficient**

This Malaysian Standard establishes the classification of thermoplastics materials in pipe form and specifies the material designation. It also gives a method for calculating the design stress. It applies to materials intended for pipes and/or fittings for pressure applications.

Price RM10

MS ISO 13760 : 2004**Plastic pipes for the conveyance of fluids under pressure - Miner's rule- Calculation method for cumulative damage**

This standard specifies a method for calculating the maximum allowable hoop stress applicable to pipes exposed to varying internal pressure and/or temperatures during their expected lifetime.

Price RM20

23.040.40**Metal fittings**

MS 708 : 1981**Specification for grey iron pipes and fittings**

Covers requirements and test methods for : 1. Pipes manufactured by the following processes : i. Centrifugal casting in metal moulds ii. Centrifugal casting in sand moulds iii. Casting in sand moulds 2. Fittings.

Price RM50

MS 1094 : 1987**Specification for cast iron fittings for asbestos cement pressure pipe**

Specifies cast iron fittings or asbestos cement pressure pipes conforming to MS 712. The requirements specified are material, workmanship, dimensional and hydrostatic performance tests.

Price RM20

MS 1842 : 2005**Specification for wrought austenitic stainless steel piping fittings**

This Malaysian Standard covers wrought stainless steel fittings for pressure piping specifications.

Price RM50

23.040.45**Plastics fittings**

MS 1010 : 1986**Specification for rigid polyvinyl chloride and related plastic pipe and fitting compounds**

This Malaysian Standard specifies the physical requirements and test methods for the rigid vinyl chloride compounds for pipes and fittings. The compounding ingredients may consist of lubricants, stabilizers, (vinyl chloride) resin modifiers, pigments and inorganic fillers.

Price RM30

MS 1419 : Pt. 1 : 1997**Specification for acrylonitrile butadiene styrene (ABS) pipes and fittings for pressure applications : Part 1: Pipes**

This Malaysian Standard specifies the requirements for pipes up to 200mm nominal size manufactured from acrylonitrile butadiene styrene (ABS) polymer for pressure applications for conveyance of potable water and other liquids and gases. Pipes manufactured in accordance with this standard are not intended for the transport gaseous fuels.

Price RM40

MS 1419 : Pt. 2 : 1997**Specification for acrylonitrile butadiene styrene (ABS) pipes and fittings for pressure applications :****Part 2 : Solvent cement fittings**

The Malaysian Standard specifies the requirements for the moulded acrylonitrile butadiene styrene (ABS) fittings for solvent cement jointing to ABS pipes up to 200 mm nominal size complying with MS 1419: Pt. 1:1997

Price RM30

MS 1419 : Pt. 3 : 1997**Specification for acrylonitrile butadiene styrene (ABS) pipes and fittings for pressure applications : Part 3 :****Solvent cement and priming (cleansing) fluids for use with ABS pipes and fittings**

The Malaysian Standard specifies the requirements for solvent cement and priming (cleaning) fluids used in the jointing of acrylonitrile butadiene styrene (ABS) pipes and fittings and in the fabrication of ABS fittings. *Price RM30*

MS 1419 : Part 4 : 1998

Specification for acrylonitrile butadiene styrene (ABS) pipes and fittings for pressure applications : Part 4 : Installation of ABS pipe system

This Malaysian Standard specifies requirements and sets out recommended methods for installing above or below ground, for both pressure and non-pressure applications. Information is included on the selection, storage and handling, of ABS pipes.

Price RM50

MS ISO 727 : 1997

Fittings of unplasticised polyvinyl chloride (PVC -U), chlorinated polyvinyl chloride (PVC-C) or acrylonitrile/butadiene/styrene (ABS) with plain sockets for pipes under pressure – Dimensions of sockets – Metric series

This Malaysian Standard is a total adoption of ISO Standard 727 : 1985. This standard specifies the dimension of plain sockets on fittings made from unplasticised polyvinyl chloride (PVC-U), chlorinated polyvinyl chloride (PVC-C) or acrylonitrile butadiene styrene (ABS), intended for connecting by solvent cementing to pipes of the corresponding material for use under pressure.

Price RM10

MS ISO 2507-1 : 2002

Thermoplastics pipes and fittings – Vicat softening temperature – Part 1: General test method

This part of MS ISO 2507 specifies a general method for determining the Vicat softening temperature of thermoplastics pipes and fitting. It includes the adaptation of method B of ISO 306: 1994, using a force of 50 N.

Price RM10

MS ISO 2507-2 : 2002

Thermoplastics pipes and fittings – Vicat softening temperature – Part 2: Test conditions for unplasticized poly (vinyl chloride) (PVC-U) or chlorinated poly (vinyl chloride) (PVC-C) pipes and fittings and for high impact resistance poly(vinyl chloride) (PVC-HI) pipes

This part of MS ISO 2507 specifies the particular test conditions for determining the Vicat softening temperature (VST) of unplasticized poly (vinyl chloride) (PVC-U) or chlorinated poly (vinyl chloride) (PVC-C) pipes and fittings and of high impact resistance poly (vinyl chloride) (PVC-H) pipes.

Price RM10

MS ISO 12162 : 2003

Thermoplastics materials for pipes and fittings for pressure applications – Classification and designation – Overall service (design) coefficient

This Malaysian Standard is identical with ISO 12162:1995. This Malaysian Standard establishes the classification of thermoplastics materials in pipe form and specifies the material designation. It also gives a method for calculating the design stress. It applies to materials intended for pipes and/or fittings for pressure applications.

Price RM10

23.040.70 Hoses and hose assemblies

MS ISO 2398 : 2002

Rubber hose, textile-reinforced, for compressed air - Specification

This Malaysian Standard specifies the requirements for seven types and two classes of rubber hose for compressed air up to a maximum working pressure of 2,5 Mpa and a hose operating-temperature range of between -40 °C and +70 °C, depending on the class.

Price RM10



MS ISO 6804 : 2002

Rubber hoses and hose assemblies for washing-machines and dishwashers - Specification for inlet hoses

This Malaysian Standard specifies requirements for inlet rubber hoses and hose assemblies for washing-machines and dishwashers connected to the domestic water supply at a pressure not exceeding 1 MPa (10bar).

Price RM10

MS ISO 8330 : 2002

Rubber and plastics hoses and hose assemblies - Vocabulary

This Malaysian Standard defines terms used in the hose industry. The terms are listed alphabetically in English.

Price RM20

MS ISO 8331 : 2004

Rubber and plastics hoses and hose assemblies – guide to selection, storage, use and maintenance

Price RM20

23.040.80 Seals for pipe and hose assemblies

MS 1292 : 1992

Specification for rubber seals-water stops for sealing joints in concrete – Specification of materials

This Malaysian Standard specifies requirements for materials used in vulcanized, solid rubber water stops for sealing joints in concrete into which they are wholly or partly embedded. Some general requirements for the finished water stops are also given. This Malaysian Standard is not applicable to flexible polyvinylchloride or cellular rubber water stops.

Price RM10

23.060**Valves**

MS 831 : 1996**Specification for valves for use with domestic liquefied petroleum gas (LPG) cylinders**

Requirements for valve material, dimensions, performance and safety features specified.

Price RM20

MS 1049 : 1986**Specification for double flanged cast iron wedge gate (sluice) valves for waterworks purposes**

Specifies requirements for double flanged inside screw, solid wedge, metal or resilient seated, non-rising stem type cast iron wedge gate (sluice) valves for waterworks purposes, whether above or below ground. Valves in accordance with this specification are primarily intended for use with portable water and for operation by a removable key or a hand-wheel.

Price RM30

23.060.01**Valves in general**

MS 1396 : 1996 (2003)**Specification for ferrules**

This Malaysian Standard specifies the requirements for the design, materials, manufacture and testing for:

Type A - swivel ferrules of 1/2" (15 mm), 3/4" (20 mm), 1 1/4" (32 mm), 1 1/2" (40 mm) and 2" (50 mm).

Type B - vertical ferrules of 1/2" (15 mm), 3/4" (20 mm) and 1" (25 mm).

Price RM20

23.060.40**Pressure regulators**

MS 1165 : 1989**Specification for pressure regulators and automatic changeover devices for liquefied petroleum gases**

Specifies materials, constructions, performance and testing requirements of ions and high pressure regulators and automatic changeover devices with screwed and clipped on connectors for use with butane and propane vapour phase up to a maximum vapour pressure of 20 bar and a maximum of 20 kg of gas per hour where storage and operational temperatures are between -20^{1/2}°C and 50^{1/2}°C.

Price RM30

MS 1720 : 2003**Welded carbon steel gas cylinders – Periodic inspection and testing**

This Malaysian Standard specifies the minimum requirements for periodic inspection and testing to verify the integrity of gas cylinders for further service. It does not exclude the application of additional national requirements.

Price RM40



23.060.50**Check Valves**

MS 1022 : 2005**Stopvalves - Specification**

This Malaysian Standard specifies requirements for the design, material, manufacture and testing of copper alloy screw-down pattern stopvalves for : a) Type I - packed gland type bonnet of nominal size of DN 15 (1/2 inch), DN 20 (3/4 inch) and DN 25 (1 inch); and b) Type II - 'O'-ring type head of nominal size of DN 15 (1/2 inch), DN 20 (3/4 inch) and DN 25(1 inch).

Price RM30

MS 1461 : 1999**Specification for draw off taps with metal bodies for water services**

Specifies the requirement for the design, materials, manufacture and testing of 1/2 inch and 3/4 inch nominal size draw-off taps. This standard supersedes MS 929 : Part 1 : 1984, MS 929 : Part 2 : 1984, MS 929 : Part 3 : 1984, and MS 929 : Part 4 : 1984.

Price RM30

MS 1882 : 2005**Piston type float operated valves - Specification**

This Malaysian Standard specifies requirements for the design, materials, dimensions and performance of piston type side entry float operated valves (copper alloy-body) (here in afterball float valve) of: a) Type I - Ball float valve for light duty of nominal size DN 15 (1/2 inch), DN 20 (3/4 inch) and DN 25 (1 inch) as illustrated in Figure 1; and b) Type II - Ball float valve for heavy duty of nominal size DN 15 (1/2 inch), DN 20 (3/4 inch) and DN 25 (1 inch) as illustrated in Figure 2

Price : RM20

23.080**Pumps**

MS IEC 60335-2-2 : 2006**Household and similar electrical appliances - Safety - Part 2-2 : Particular requirements for vacuum cleaners and water-suction cleaning appliances**

This Malaysian Standard deals with the safety of electric vacuum cleaners and water suction cleaning appliances for household and similar purposes, including vacuum cleaners for animal grooming, their rated voltage being not more than 250 V.

Price: RM30

MS IEC 60335-2-21 : 2005

Household and similar electrical appliances – Safety – Part 2-21 : Particular requirements for storage water heaters

This Malaysian Standard deals with the safety of electric storage water heaters for household and similar purposes and intended for heating water below boiling temperature, their rated voltage being not more than 250 V for single-phase appliances and 480 V for other appliances.

Price RM30

MS IEC 60335-2-41 : 2005

Household and similar electrical appliances - Safety - Part 2-41: Particular requirements for pumps (First revision)

This Malaysian Standard deals with the safety of electric pumps for liquids having a temperature not exceeding 90 °C, intended for household and similar purposes, their rated voltage being not more than 250 V for single-phase appliances and 480 V for other appliances.

Price RM30

MS IEC 60335-2-51 : 2003

Household and similar electrical appliances safety - Part 2-51: Particular requirements for stationary circulation pumps for heating and service water installations

This clause of Part 1 is replaced by the following. This Malaysian Standard deals with the safety of electric stationary circulation pumps intended for use in heating systems or in service water systems, having a rated power input not exceeding 300 W, their rated voltage being not more than 250 V for single-phase appliances and 480 V for other appliances.

Price RM20

23.100.20 Cylinders

MS 217 : 1974

Method for the hydrostatic stretch testing of liquefiable and other compressed gas cylinders

Describes methods for hydrostatic strength testing of steel cylinders intended for storage and transport of liquefiable and other compressed gases.

Price RM20

MS 641 : 1982

Specification for LPG cylinders up to 1000 pounds water capacity without electric-arc welded longitudinal seam

Covers type, size and service pressure, quality of steel, wall thickness and quality of manufacture. Sample of inspector's report and test methods provided.

Price RM20

MS 642 : 1982

Specification for LPG cylinders up to 1000 pounds water capacity with electric-arc welded longitudinal seam

Same as MS 641 with addition of specification for street and analysis tolerances for the cylinders.

Price RM20

MS 1474 : 1999

Cylinders for permanent gases – Inspection at time of filling

Specifies minimum requirements for filling inspections of transportable gas cylinders for continued use.

Price RM10

MS 1475 : 1999

Cylinders for liquefied gases (excluding acetylene and LPG) – Inspection at time of filling

Specifies the minimum requirements to verify the integrity of transportable gas cylinders for continued use.

Price RM20

23.120 Ventilators. Fans. Air-conditioners

MS 1220 : 2001

Performance and construction of electric circulating fans and regulators (First revision)

This standard applies to the types of electric motor directly driven fans and their associated regulators intended for use on single-phase a.c. and d.c. circuits not exceeding 250V.

Price RM20

MS 1597 : Part 2-80 : 2007

Household and similar electrical appliances - Safety - Part 2-80: Particular requirements for fans (Second revision)

This Malaysian Standard deals with the safety of electric fans for household and similar purposes, their rated voltage being not more than 250 V for single-phase appliances and 480 V for other appliances.

Price RM20

MS IEC 60335-2-40 : 1999

Safety of household and similar electrical appliances : Part 2 : Particular requirements for electrical heat pumps, air-conditioners and dehumidifiers

Applies to the safety of electric heat pumps, including sanitary hot water heat pumps, air-conditioners, and dehumidifiers incorporating sealed motor-compressors.

Price RM50

MS IEC 60335-2-65 : 2006

Safety of household and similar electrical appliances : Part 2 : Particular requirements for air-cleaning appliances (First revision)

Deals with the safety of electrical air-cleaning appliances for household and similar purposes, their rated voltage being not more than 250 V for single-phase appliances and 480 V for other appliances.

Price RM20

MS IEC 60704-2-7 : 2006

Household and similar electrical appliances - Test code for the determination of airborne acoustical noise - Part 2-7 : Particular requirements for fan

This Malaysian Standard applies to electrical fans (including their accessories and their component parts) for household and similar use, designed for a.c. or d.c. supply.

Price RM20

MS ISO 5151 : 2004

Non-ducted air conditioners and heat pumps – Testing and rating for performance

This Malaysian Standard specifies the standard conditions on which the ratings of single-package and split-system non-ducted air conditioners employing air- and water-cooled condensers are based, and the test methods to be applied for determination of the various rating.

Price RM60

25. MANUFACTURING ENGINEERING

25.040 Industrial automation systems

MS ISO 1604 : 2005

Belt drives – Endless wide V-belt for industrial speed-changers and groove profiles for corresponding pulleys

This Malaysian Standards specifies the principles dimensions of endless wide V-belts for industrial speed-changer and the groove profiles of corresponding fixed or variable diameter pulley.

Price RM20

25.060 Machine tool systems

25.060.10 Modular units and other devices

Guide to Modular Coordination in Buildings

MS 1064 : Part 1 : 2001

Guide to modular coordination in buildings : Part 1 : General principles (First revision)

This scope of this Malaysian Standard is to specify the aims of modular coordination and states the general principles and rules to be applied in determining the dimensions of buildings and the positioning and dimensioning of component, equipment and assemblies.

Price RM40

MS 1064 : Part 2 : 2001

Guide to modular coordination in buildings : Part 2 : Storey heights and room heights (First revision)

This Malaysian Standard specifies sizes of modular storey and modular room heights used in all buildings. This standard also specifies preferred storey height and room height for residential buildings only. This standard supersedes MS 1064 : Part 8 and MS 1064 : Part 12 : 1988.

Price RM10

MS 1064 : Part 3 : 2003

Guide to modular coordination in buildings: Part 3: Coordinating sizes and preferred sizes for stairs and stair openings (First revision)

This Malaysian Standard gives general principles for coordinating dimensions of stairs and stair openings in residential, commercial and office and institutional use, and which will fill coordinating spaces in dimensionally coordinated buildings. This Malaysian Standard replaces MS 1064 : Part 13 : 1988.

Price RM20



MS 1064 : Part 4 : 2001

Guide to modular coordination in buildings : Part 4 : Coordinating sizes and preferred sizes for doorsets (First revision)

This Malaysian Standard generally specifies the coordinating sizes and preferred sizes for doorsets of all materials.

This standard supersedes MS 1064 : Part 9 and MS 1064 : Part 10 : 1988.

Price RM10

MS 1064 : Part 5 : 2001

Guide to modular coordination in buildings : Part 5 : Coordinating sizes and preferred sizes for windowsets

This Malaysian Standard specifies coordinating sizes and preferred dimensions for windowsets (external and internal).

Price RM10

MS 1064 : Part 6 : 2001

Guide to modular coordination in buildings : Part 6 : Coordinating sizes and preferred sizes for rigid flat sheets (First revision)

This Malaysian Standard specifies coordinating sizes and preferred sizes for rigid flat sheets used in buildings. This standard supersedes MS 1064 : Part 15 : 1988.

Price RM10

MS 1064 : Part 7 : 2001

Guide to modular coordination in buildings : Part 7 : Coordinating sizes and preferred sizes for tiles

This Malaysian Standard specifies coordinating sizes and preferred sizes for tiles used in buildings.

Price RM20

MS 1064 : Part 8 : 2001

Guide to modular coordination in buildings : Part 8 : Coordinating sizes and preferred sizes for masonry bricks and blocks

This Malaysian Standard gives recommendations for the coordinating sizes and preferred sizes for all types of bricks and blocks except for glass blocks.

Price RM10

MS 1064 : Part 9 : 2001

Guide to modular coordination in buildings : Part 9 : Coordinating sizes and preferred sizes for cabinets

This Malaysian Standard specifies coordinating sizes and preferred sizes for cabinets used in buildings.

Price RM30

MS 1064 : Part 10 : 2001

Guide to modular coordination in buildings : Part 10 : Coordinating sizes and preferred sizes for reinforced concrete components

This Malaysian Standard specifies the coordinating sizes and preferred sizes for structural reinforced concrete components to be used for buildings, and which will fill coordinating spaces in dimensionally coordinated buildings.

Price RM20

MS 1331 : 2003

Code of practice for access of disable persons outside buildings (First revision)

This Malaysian Standard specifies the basic requirements for the provision and design of outdoor facilities so as to permit access for people with disabilities.

Price RM40

25.080 Machine tools

MS IEC 60335-2-45 : 2003

Safety of household and similar electrical appliances - Part 2 : Particular requirements for portable heating tools and similar appliances

This Malaysian Standard deals with the safety of portable electric heating tools and similar appliances, their rated voltage being not more than 250 V.

Price RM20

25.080.50 Grinding and polishing machines

MS IEC 60745-2-4 : 2005

Hand-held motor-operated electric tools – Safety – Part 2-4 : Particular requirements for sanders and polishers other than disk type

This Malaysian Standard applies to sanders with the exception of all types of disc-type sanders, which are covered by MS IEC 60745-2-3 : 2005.

Price RM20

25.100 Cutting tools

25.100.01 Cutting tools in general

MS 1203 : 1991

Specification for brush cutters - Safety requirements

This Malaysian Standard specifies safety requirements for engine-driven brush cutters intended for use of clearing grass, weeds, brush, shrubs and small trees.

Price RM20

25.100.40 Saws

MS 704 : 2005

Hacksaw blades – Specification (First revision)

This Malaysian Standard specifies requirements for single-toothed edge hacksaw blades for hand or machine use.

Price RM20

25.140.20 Electric tools

MS IEC 60745-1 : 2005

Hand-held motor-operated electric tools – Safety – Part 1 : General requirements

This Malaysian Standard deals with the safety of hand-held motor-operated or magnetically driven electric tools, the rated voltage of the tools being not more than 250 V for single-phase a.c or d.c tools and 440 V for three-phase a.c tools.

Price RM120

MS IEC 60745-2-1 : 2005

Hand-held motor-operated electric tools – Safety – Part 2-1 : Particular requirements for drills and impact drills

This Malaysian Standard applies to drills and impact drills.

Price RM20

MS IEC 60745-2-3 : 2005

Safety of hand-held motor-operated electric tools – Part 2 : Particular requirements for grinders, polishers and disk type sanders

This Malaysian Standard applies to electric grinders, polishers and disk-type sanders.

Price RM20

MS IEC 60745-2-4 : 2005

Hand-held motor-operated electric tools – Safety - Part 2-4 : Particular requirements for sanders and polishers other than disk type

This Malaysian Standard applies to sanders with the exception of all types of disc-type sanders, which are covered by MS IEC 60745-2-3 : 2005.

Price RM20

MS IEC 60745-2-5 : 2005

Hand-held motor-operated electric tools – Safety – part 2-5 : Particular requirements for circular saws

This Malaysian Standard applies to all types of circular saws.

This does not apply to saws with abrasive wheels.

Price RM40

MS IEC 60745-2-7 : 2005

Safety of hand-held motor-operated electric tools – Part 2 : Particular requirements for spray guns for non-flammable liquids

This Malaysian Standard applies to spray guns used for spraying non-flammable liquids which incorporate the motor in the hand-held unit.

Price RM20

MS IEC 60745-2-11 : 2005

Hand-held motor-operated electric tools – Safety – Part 2-11 : Particular requirements for reciprocating saws (Jigs and sabre saws)

This clause of Part 1 is applicable except as follows :

This standards applies to reciprocating saws.

Price RM20

MS IEC 60745-2-14 : 2005

Hand-held motor-operated electric tools – Safety – Part 2-14 : Particular requirements for planers

This clause of Part 1 is applicable except as follows :

This standards applies to planers.

Price RM20

MS IEC 60745-2-15 : 2006

Safety of hand-held motor-operated electric tools – Safety – Part 2-15 : Particular requirements for hedge trimmers and grass shears

This clause of Part 1 is applicable, except as follows :

This standard applies to hedge trimmers and glass shears.

Price RM20

MS IEC 60745-2-17 : 2005

Hand-held motor-operated electric tools – Safety – Part 2-17 : Particular requirements for routers and trimmers

This clause of Part 1 is applicable, except as follows :

This standard applies to routers and trimmer.

Price RM20

25.140.30 Hand-operated tools

MS 705 : 1981

Specification for hand hammers

Prescribes requirements for the following types of hand hammer: engineer's ball pan, engineer's cores pan, double face sledge, stone breaker's (round eye), stone breakers (oval eye), boiler scaling spiking and keying, spiking and keying (alluete design), keying and spilling. Also includes methods of sampling and testing.

Price RM20

MS 711 : 1981

Specification for screwdrivers

Cover specific characteristics of hand and machine operated screwdrivers for bolt slotted and cross recessed head screws. Includes clause on shapes, dimensions and tolerance of blade, specification and test conditions.

Price RM30

MS IEC 60745-2-4: 2005

Hand-held motor-operated electric tools - Safety - Part 2-4 : Particular requirements for sanders and polishers other than disk type

This standard applies to sanders with the exception of all types of disc-type sanders, which are covered by MS IEC 60745-2-3: 2005.

Price RM20

25.140.99 Other hand-held tools

MS 706 : 1981

Specification for cold chisels

Covers requirements and test methods for cold cutting of metal of the following types : flat cold, cross cut cold, diamond point cold, and half round nose cold.

Price RM10

25.160 Welding, brazing and soldering

MS 1046 : 1986

Glossary of welding terms, including terms for brazing, soldering, thermal spraying and thermal cutting

Defines terms commonly used in the welding and allied industries. It includes terms for brazing, soldering, thermal spraying and thermal cutting.

Price RM120

MS 1206 : Part 1 : 1991

Specification for qualification for welders - Fusion welding : Part 1 : Steels

This standard specifies requirements for the approval testing of welders and welding operators to be engaged on the manual, semi-automatic and mechanised fusion welding of wrought and cast ferritic steels or austenitic stainless steel fabrications. This standard is not intended to apply to welding operator of automatic welding equipment.

Price RM30

25.160.10 Welding processes

MS ISO 9956-1 : 2006

Specification and approval of welding procedure for metallic materials – Part 1 : General rules for fusion welding

This Malaysian Standard defines general rules for the specification and approval of welding procedures for metallic materials. This standard also refers to several other standards as regards detailed rules for specific applications.

Price RM20

MS ISO 9956-2 : 2006

Specification and approval of welding procedure for metallic materials – Part 2 : Welding procedure specification for arc welding

This Malaysian Standard specifies requirements for the content of welding procedure specifications for arc welding processes. The principles of this standard may be also applied to other fusion welding processes subject to several other standards as regards detailed rules for specific applications.

Price RM10

MS ISO 9956-3 : 2006

Specification and approval of welding procedure for metallic materials – Part 3 : Welding procedure tests for arc welding of steels

This Malaysian Standard specifies how a welding procedure specification is approved by welding procedure tests. It defines the conditions for the execution of welding procedure approval tests and limits of validity of an approved welding procedure for all practical welding operation within the range of variables listed in Clause 8. This standard applies to the arc welding of steels. The principles of this standard may be applied to other fusion welding processes subject to agreement between the contracting parties.

Price RM40

MS ISO 9956-4 : 2006

Specification and approval of welding procedure for metallic materials – Part 4 : Welding procedure test for the arc welding of aluminium and its alloy

This Malaysian Standard specifies how a welding procedure specification is approved by welding procedure tests. It defines the conditions for the execution of welding procedure approval tests and limits of validity of an approved welding procedure for all practical welding operation within the range of variables listed in Clause 8. It is intended that tests be carried out in accordance with this standard unless more severe tests are specified by the relevant application standard or contract.

Price RM40

MS ISO 9956-5 : 2006

Specification and approval of welding procedure for metallic materials – Part 5 : Approval by using approved welding consumables for arc welding

This Malaysian Standard simplifies the approval of welding procedures especially for repetitive operations. It gives the necessary information to explain the requirements referenced in MS ISO 9956-1 about the approval of welding procedures using approved consumables.

Price RM10

MS ISO 9956-6 : 2006

Specification and approval of welding procedure for metallic materials – Part 6 : Approval related to previous experience

This Malaysian Standard specifies the conditions for approval of a welding procedure based on previous experience according to MS ISO 9956-1. In addition it gives the range of approval and the validity. Price RM10

MS ISO 9956-7 : 2006

Specification and approval of welding procedure for metallic materials – Part 7 : Approval by standard welding procedure for arc welding

This Malaysian Standard defines the conditions for the approval of

a standard welding procedure for arc welding and establishes the conditions, limits and ranges of approval necessary for the use of standard welding procedures for arc welding. The use of this standard can be restricted by an application standard or at the enquiry or order stage by contracting parties.

Price RM10

MS ISO 9956-8 : 2006

Specification and approval of welding procedure for metallic materials – Part 8 : Approval by pre-procedure welding test

This Malaysian Standard specifies the conditions for the approval of a welding procedure based on pre-production welding tests in accordance with ISO 9956-1. In addition, it gives the range of approval and the validity. This standard is applicable to fusion welding of metallic materials. Any other welding processes can be accepted by agreement between the contracting parties.

Price RM10

MS ISO 9956-10 : 2006

Specification and approval of welding procedure for metallic materials – Part 10 : Welding procedure specification for electron beam welding

This Malaysian Standard specifies requirements for the content of welding procedure specifications for electron beam welding. Variables listed in this standard are those influencing the metallurgy, mechanical properties and the geometry of the welded assembly.

Price RM20

MS ISO 9956-11 : 2006

Specification and approval of welding procedure for metallic materials – Part 11 : Welding procedure specification for laser beam welding

This Malaysian Standard specifies requirements for the content of welding procedure specifications for laser beam welding. Variables listed in this standard are those influencing the metallurgy, mechanical properties and the geometry of the assembly and other service related properties.

Price RM20

25.160.20 Welding consumables

MS 518 : 1989

Specification for covered carbon steel arc-welding electrodes (First revision)

Prescribes requirements for covered carbon steel electrodes for shielded metal-arc welding of carbon and low-alloy steels.

Price RM50

MS 519 : 1977

Specification for low-alloy steel covered arc-welding electrodes (First revision)

Prescribes requirements for covered low-alloy steel electrodes for shielded metal arc welding of carbon and low-alloy steels.

Price RM60

MS 520 : 1989

Specification for carbon steel electrodes and rods for use with gas shielded arc welding (First revision)

Specifies requirements for bare carbon steel electrodes and rods for use with gas metal arc (GMAW), gas tungsten arc (GTAW) and plasma arc (PAW) welding. The requirements include the chemical composition, mechanical property, impact properties and soundness test. Guide to MS classification of carbon steel filler metals for gas shielded arc welding also specified.

Price RM30

25.160.30 Welding equipment

MS 949 : 1984

Code of practice for safety in welding and cutting

Provides the basic safety requirements in the installation and operation of oxygen fuel gas system for welding and cuttings, arc welding and cutting equipment; and resistance welding equipment. Also deals with fire safety, general and health protection of personnel involved in the operation.

Price RM30

25.160.40 Welded joints

MS 1317 : Part 2 : 1993

Recommended practice for radiographic examination of fusion welded joints : Part 2 : Fusion welded butt joints in steel plates thicker than 50 mm and up to and including 200 mm in thickness

This Part of the Malaysian Standard specifies general techniques requirements of the radiographic examination of fusion welded joints for steel plates thicker than 50 mm and up to and including 200 mm thickness. It is concerned with the radiographic techniques to be used. The techniques are based on generally accepted practice and the fundamental theory of the object.

Price RM20

25.160.50 Brazing and soldering

MS 870 : 2005

Soft solder alloys - Specification

Specifies chemical composition, shape, dimension, designation, method of sampling and marking. Includes various grades of tin-lead, tin-lead-antimony and tin-silver alloys. *Price RM20*

MS 964 : 1985

Specification for resin flux cored solder

Covers resin-cored solder having one or more continuous cores of flux, either activated or non-activated. A system of classification is given. Requirements include dimensions, flux content, dryness, chlorine content, corrosion, aqueous solution resistance, insulation resistance and spreading. *Price RM10*

25.220 Surface treatment and coating

MS 740 : 1981

Specification for hot-dip galvanized coatings on iron and steel articles

Specifies requirements and test methods for steel articles galvanized after fabrication and on grey and malleable iron castings. Excludes semi-finished products such as galvanized wire, tube or sheet which are suitable for subsequent fabrication.

Price RM30

25.220.40 Metallic coatings

MS 407 : 1991

Specification for zinc coatings on steel wire (First revision)

This Malaysian Standard specifies the methods of testing zinc coated steel wires and products fabricated from them to determine the nominal mass of the zinc coating, its uniformity and its adhesion.

Price RM20

27. ENERGY AND HEAT TRANSFER ENGINEERING

27.020 Internal combustion engines

MS 591 : 1979

Nomenclature for pistons for internal combustion engines

Refers to pistons for two and four stroke single acting spark ignition and compression ignition engines. Does not specify piston dimensions but necessary information to enable its determination provided.

Price RM10

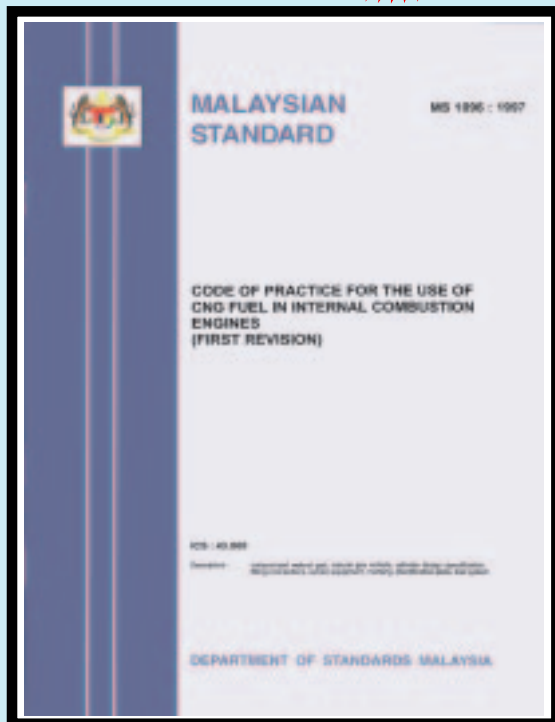
MS 1096 : 1997

Code of practice for the use of CNG fuel in internal combustion engines (First revision)

This Malaysian Standard applies to the design, construction, installation, operation, maintenance and fuelling of compressed natural gas (CNG) systems where CNG is used either wholly or in part as a fuel for internal combustion engines. This standard is directed towards vehicle installations. Special circumstances exist for industrial trucks with internal combustion engines. Accordingly a separate section is included to cover the special requirements of these trucks. This standard is not intended to cover: (a) The areas where major structural modifications are to be carried to the vehicle. Prior to commencement of such work, guidance should be sought from the vehicle manufacturer. (b) CNG fuel systems for the propulsion of marine craft. (c) CNG fuel systems for stationary combustion engines and gas turbines. This standard supersedes MS 1096 : 1987

Price RM50

Best Seller



MS ISO 4548-1 : 2005

Methods of test for full-flow lubricating oil filters for internal combustion engines – Part 1 : Differential pressure / flow characteristics

This Malaysian Standard specifies tests for determining the differential pressure / flow characteristics of full-flow lubricating oil filters for internal combustion engines. Tests are specified with two viscosities, one to assess the performance of a filter with a cold oil and the other to assess its performance with an oil at a typical operating temperature.

Price RM140

MS ISO 4548-2 : 2005

Methods of test for full-flow lubricating oil filters for internal combustion engines – Part 2 : Element by-pass valve characteristics

This Malaysian Standard specifies tests for determining the element by-pass valve characteristics of full-flow lubricating oil filters for internal combustion engines. Tests are specified with two oils at two viscosities, one to assess the performance of an element by-pass valve with a cold oil and the other to assess its performance with an oil at typical operating temperature.

Price RM120

MS ISO 4548-3 : 2005

Methods of test for full-flow lubricating oil filters for internal combustion engines – Part 3 : Resistance to high differential pressure and to elevated temperature

This Malaysian Standard specifies tests for measuring the resistance to high differential pressure and the resistance to elevated temperature of filter elements of full-flow lubricating oil filters for internal combustion engines.

Price RM140

MS ISO 4548-4 : 2005

Methods of test for full-flow lubricating oil filters for internal combustion engines – Part 4 : initial particle retention efficiency, life and cumulative efficiency (Gravimetric method)

This Malaysian Standard specifies tests for determining the performance of full-flow lubricating oil filters for internal combustion engines as follows. Section 2 : Initial particle retention efficiency. This gives the test procedures and parameters for the determination of the initial particle retention efficiency of lubricating oil filter elements under defined test conditions. By reporting the results in accordance with subclause 2.6, the probable retention efficiency for any particle size may be derived. The retention efficiency is determined by the gravimetric method. Section 3: Life and cumulative efficiency. This gives the test procedures and parameters for the determination of element life and cumulative efficiency of lubricating oil filters. The cumulative efficiency is determined by the gravimetric method.

Price RM260

MS ISO 4548-5 : 2005

Methods of test for full-flow lubricating oil filters for internal combustion engines – Part 5 : Cold start simulation and hydraulic pulse durability test

This Malaysian Standard specifies a method of testing the ability of full-flow lubricating oil filters for internal combustion engines to withstand an internal pressure surge such as occurs when an engine is started from cold, and cyclic internal pressure variations experienced during Operation. These tests are intended for application to spin-on type filters and detachable filters with disposable elements with a maximum flow rate of 100 Vmin. The tests may be applied to other filters if thought applicable by agreement between the filter manufacturer and the purchaser.

Price RM110

MS ISO 4548-6 : 2005**Methods of test for full-flow lubricating oil filters for internal combustion engines – Part 6 : Static burst pressure test**

This Malaysian Standard specifies a method of testing full-flow lubricating oil filters for internal combustion engines to determine their ability to withstand a static pressure objective and to determine their burst pressure and the failure mode concerned. It does not apply to filters for use in aeronautical applications.

Price RM80

MS ISO 4548-7 : 2005**Methods of test for full-flow lubricating oil filters for internal combustion engines – Part 7 : Vibration fatigue test**

This Malaysian Standard specifies a method of testing the constructional integrity of full-flow lubricating oil filters to withstand engine or installation vibration. This test is intended for application to spin-on type filters and detachable filters with disposable elements with a maximum flow rate of 100 Vmin. The test may also be applied to other filters if thought applicable by agreement between the filter manufacturer and the purchaser.

Price RM110

MS ISO 4548-9 : 2005**Methods of test for full-flow lubricating oil filters for internal combustion engines – Part 9 : Inlet and outlet anti-drain valve tests**

This Malaysian Standard specifies methods of measuring the effectiveness of either inlet or outlet anti-drain valves if fitted to a full-flow lubricating oil filter of the "spin-on" or "easy Change" type, for internal combustion engines.

Price RM120

MS ISO 4548-11 : 2005**Methods of test for full-flow lubricating oil filters for internal combustion engines – Part 11 : Self-cleaning filters**

This Malaysian Standard specifies test methods for evaluating the characteristics of self-cleaning oil filters for internal combustion engines. It is applicable to filters in which self-cleaning is continuous or intermittent. The removal of retained particles from the filter is achieved by periodic reversal of the direction of the fluid flow through the elements. However, this also applies mechanical stresses to the filter media. The tests specified in this standard are designed to check the filtration performance of the elements under simulated operating conditions and to confirm their ability to withstand, without damage, variations in oil pressure, temperature, direction of flow and the presence of water. The equipment and procedures specified in this part of ISO 4548 are recommended for filters having a nominal flow rate of up to 1 600 Vmin.

Price RM220

MS ISO 4548-12 : 2005**Methods of test for full-flow lubricating oil filters for internal combustion engines – Part 12 : Filtration efficiency using particle counting and contaminant retention capacity**

This Malaysian Standard specifies a multi-pass filtration test with continuous contaminant injection and using the online particle counting method for evaluating the performance of full-flow lubricating oil filters for internal combustion engines. The test procedure determines the contaminant capacity of a filter, its particulate removal characteristics and differential pressure. This test is intended for application to filter elements having a rated flow between 4 l/min and 600 l/min and with an efficiency of less than 99 % at a particle size greater than 10 μ m.

Price RM230

27.080**Heat pumps****MS ISO 5151 : 2004****Non-ducted air conditioners and heat pumps – Testing and rating for performance**

This International Standard specifies the standard conditions on which the ratings of single-package and split-system non-ducted air conditioners employing air- and water-cooled condensers are based, and the test methods to be applied for determination of the various rating.

Price RM60

27.160**Solar energy engineering****MS 1837 : 2005****Installation of grid – Connected photovoltaic (PV) system**

This Malaysian Standard sets out the general installation requirements for grid-connected photovoltaic (PV) arrays with direct current (d.c) open circuit voltages up to 1000 V between positive and negative conductors or up to \pm 1000 V with respect to earth.

Price RM40

MS IEC 61215 : 2006**Crystalline silicon terrestrial photovoltaic (PV) modules - Design qualification and type approval**

This Malaysian 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.

Price RM50

MS IEC 61646 : 2006**Thin-film terrestrial photovoltaic (PV) modules - Design qualification and type approval**

Price RM50

27.220**Heat recover. Thermal insulation****MS 1532 : 2002****Thermal insulation - Determination of steady-state thermal transmission properties - Calibrated and guarded hot box**

This Malaysian Standard lays down the principles for the design of the apparatus and minimum requirement that shall be met for determination of the laboratory for steady-state thermal transmission properties of building components and similar components for industrial use. It does not, however, specify a particular design since requirements vary, particularly in terms of size, and also to a lesser extent in terms of operating conditions.

Price RM40

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NUMERICAL LISTING

Standards Number	Price(RM)	Page	Standards Number	Price (RM)	Page
MS 217 : 1974	20	11	MS 1063 : 2002	50	5
MS 221 : 2002	10	1	MS 1064 : Part 1 : 2001	40	12
MS 407 : 1991	20	15	MS 1064 : Part 2 : 2001	10	12
MS 490 : 1977	60	1	MS 1064 : Part 3 : 2003	20	12
MS 491 : 1977	50	1	MS 1064 : Part 4 : 2001	10	12
MS 518 : 1989	50	15	MS 1064 : Part 5 : 2001	10	12
MS 519 : 1977	60	15	MS 1064 : Part 6 : 2001	10	12
MS 520 : 1989	30	15	MS 1064 : Part 7 : 2001	20	12
MS 521 : 1986	20	4	MS 1064 : Part 8 : 2001	10	12
MS 591 : 1979	10	17	MS 1064 : Part 9 : 2001	30	12
MS 593 : 1979	10	4	MS 1064 : Part 10 : 2001	20	12
MS 628 : Part 1 : 1999	40	6	MS 1094 : 1987	20	8
MS 628 : Part 2 : Sec. 2.1 : 1999	40	6	MS 1096 : 1997	50	17
MS 628 : Part 2 : Sec. 2.2 : 1999	20	6	MS 1108 : 1988	10	4
MS 628 : Part 3 : 1999	30	6	MS 1165 : 1989	30	10
MS 636 : 1984	40	5	MS 1203 : 1991	20	13
MS 641 : 1982	20	11	MS 1206 : Part 1 : 1991	30	14
MS 642 : 1982	20	11	MS 1219 : Part 2 : 2002	20	11
MS 704 : 2005	20	13	MS 1220 : 2001	20	11
MS 705 : 1981	20	14	MS 1241 : 1991	30	5
MS 706 : 1981	10	14	MS 1292 : 1992	10	9
MS 708 : 1981	50	8	MS 1317 : Part 2 : 1993	20	15
MS 709 : 1981	40	5	MS 1331 : 2003	40	13
MS 711 : 1981	30	14	MS 1396 : 1996 (2003)	20	10
MS 739 : 1981	20	3	MS 1419 : Part 1 : 1997	40	8
MS 740 : 1981	30	15	MS 1419 : Part 2 : 1997	30	8
MS 762 : 1982	20	6	MS 1419 : Part 3 : 1997	30	9
MS 823 : 2004	20	4	MS 1419 : Part 4 : 1998	50	7, 9
MS 831 : 1996	20	10	MS 1461 : 1999	30	11
MS 857 : 1983	20	1	MS 1464 : 1999	20	5
MS 862 : 1983	30	5	MS 1474 : 1999	10	11
MS 863 : 2004	20	6	MS 1475 : 1999	20	11
MS 870 : 2005	20	15	MS 1512 : 2001	30	5
MS 945 : 1984	20	4	MS 1532 : 2002	40	18
MS 949 : 1984	30	15	MS 1597 : Part 2-80	20	11
MS 964 : 1985	10	15	MS 1720 : 2003	40	10
MS 978 : 1985	40	6	MS 1837 : 2005	40	18
MS 979 : Part 1 : 1985	40	6	MS 1841 : 2005	70	6
MS 979 : Part 2 : 1985	30	6	MS 1842 : 2005	50	8
MS 1010 : 1986	30	8	MS 1843 : 2005	40	6
MS 1022 : 2005	30	10	MS 1861 : 2005	20	4
MS 1035 : 1986	30	6	MS 1882 : 2005	20	10
MS 1046 : 1986	120	14	MS IEC		
MS 1049 : 1986	30	10	MS IEC 60335-2-2 : 2006	30	10
MS 1058 : Part 1 : 2005	20	7	MS IEC 60335-2-21 : 2005	30	11
MS 1058 : Part 2 : 2005	20	7	MS IEC 60335-2-41 : 2005	30	11

NUMERICAL LISTING

Standards Number	Price (RM)	Page	Standards Number	Price (RM)	Page
MS IEC 60335-2-51 : 2003	20	11	MS ISO 2901 : 2003	10	2
MS IEC 60335-2-40 : 1999	50	11	MS ISO 2902 : 2003	10	2
MS IEC 60335-2-45 : 2003	20	13	MS ISO 2903 : 2003	20	2
MS IEC 60335-2-65 : 2006	20	11	MS ISO 2904 : 2003	20	2
MS IEC 60704-2-7	20	11	MS ISO 3127 : 2002	20	7
MS IEC 60745-1 : 2005	120	13	MS ISO 4065 : 2003	20	7
MS IEC 60745-2-1 : 2005	20	13	MS ISO 3807 : 1998	20	5
MS IEC 60745-2-3 : 2005	20	13	MS ISO 4026 : 2005	10	4
MS IEC 60745-2-4 : 2005	20	13, 14	MS ISO 4027 : 2005	10	4
MS IEC 60745-2-5 : 2005	40	13	MS ISO 4028 : 2005	10	4
MS IEC 60745-2-7 : 2005	20	13	MS ISO 4029 : 2005	20	4
MS IEC 60745-2-11 : 2005	20	13	MS ISO 5408 : 2003	20	1
MS IEC 60745-2-14 : 2005	20	13	MS ISO 6804 : 2002	10	9
MS IEC 60745-2-15 : 2006	20	13	MS ISO 1604 : 2005	20	12
MS IEC 60745-2-17 : 2005	20	13	MS ISO 4548-1 : 2005	140	17
MS IEC 61215 : 2006	50	17	MS ISO 4548-2 : 2005	120	17
MS IEC 61646 : 2006	50	17	MS ISO 4548-3 : 2005	140	17
MS ISO			MS ISO 4548-4 : 2005	260	17
MS ISO 7-1 : 2003	20	2	MS ISO 4548-5 : 2005	110	17
MS ISO 7-2 : 2003	40	2	MS ISO 4548-6 : 2005	80	17
MS ISO 68-1 : 2002	10	1	MS ISO 4548-7 : 2005	110	18
MS ISO 225 : 2003	20	3	MS ISO 4548-9 : 2005	120	18
MS ISO 228-1 : 2003	20	2	MS ISO 4548-11 : 2005	220	18
MS ISO 228-2 : 2003	20	3	MS ISO 4548-12 : 2005	230	18
MS ISO 261 : 2002	10	1	MS ISO 5151 : 2004	60	11, 18
MS ISO 262 : 2002	10	1	MS ISO 8330 : 2002	20	9
MS ISO 265-1 : 2003	30	7	MS ISO 8331 : 2004	20	9
MS ISO 580 : 2003	10	7	MS ISO 9809-1 : 2005	50	5
MS ISO 724 : 2002	20	1	MS ISO 9080 : 2004	40	7
MS ISO 727 : 1997	10	9	MS ISO 9852 : 2002	10	8
MS ISO 898-1 : 2003	40	3	MS ISO 9853 : 2003	20	8
MS ISO 898-2 : 2003	20	3	MS ISO 9956-1 : 2006	20	14
MS ISO 898-5 : 2003	20	3	MS ISO 9956-2 : 2006	10	14
MS ISO 898-6 : 2003	20	3	MS ISO 9956-3 : 2006	40	14
MS ISO 898-7 : 2003	10	4	MS ISO 9956-4 : 2006	40	14
MS ISO 965-1 : 2002	30	1	MS ISO 9956-5 : 2006	10	14
MS ISO 965-2 : 2003	10	2	MS ISO 9956-6 : 2006	10	14
MS ISO 965-3 : 2003	10	2	MS ISO 9956-7 : 2006	10	15
MS ISO 965-4 : 2003	10	2	MS ISO 9956-8 : 2006	10	15
MS ISO 965-5 : 2003	10	2	MS ISO 9956-10 : 2006	20	15
MS ISO 1502 : 2003	40	2	MS ISO 9956-11 : 2006	20	15
MS ISO 1891 : 2003	50	3	MS ISO 11173 : 2002	20	8
MS ISO 2398 : 2002	10	9	MS ISO 11625 : 2005	20	5
MS ISO 2505-1 : 2002	10	7	MS ISO 11922-1 : 2003	30	8
MS ISO 2505-2 : 2002	20	7	MS ISO 11922-2 : 2003	30	8
MS ISO 2507-1 : 2002	10	7, 9	MS ISO 12162 : 2003	10	8, 9
MS ISO 2507-2 : 2002	10	7, 9	MS ISO 13760 : 2004	20	8
			MS ISO 22991 : 2005	40	5

INDEX

Subject - MS Number - Page

Subject - MS Number - Page

A

Acetylene

- Cylinders for dissolved,
 - Inspection & maintenance (MS 1512), 5

Air Conditioners, Non-ducted (MS ISO 5151), 11, 18

Asbestos cement

- Pressure pipes, cast-iron fittings (MS 1094), 8
- Airborne acoustical noise, test code for determination, of fans (MS IEC 60704-2-7)

B

Building, Modular coordination

- General principles (MS 1064:Pt.1), 12
 - Coordinating sizes and preferred sizes for cabinets (MS 1064:Pt.9), 12
 - Coordinating sizes and preferred sizes for reinforced concrete components (MS 1064:Pt.10), 12
 - Storey heights and room heights (MS 1064:Pt.2), 12
 - Coordinating sizes and preferred sizes for windowsets (MS 1064:Pt.5), 12
 - Coordinating sizes and preferred sizes for rigid flat sheets (MS 1064:Pt.6), 12
 - Principles & rules ((MS 1064:Pt.3), 12
 - Coordinating sizes and preferred sizes for masonry bricks and blocks (MS 1064:Pt.8), 12
 - Coordinating sizes and preferred sizes for doorsets (MS 1064:Pt.4), 12
 - Coordinating sizes and preferred sizes for tiles (MS 1064:Pt.7), 12
- Bull dog clips (MS 823), 4

C

Cast iron pipelines

- Grey iron pipes & fittings (MS 708), 8
- Non-pressure pipes & fittings (MS 709), 5
- Austenitic-ferritic (duplex) (MS 1843), 6

Chainwheels - Short pitch, Precision (MS 521), 4

Chisels - Cold (MS 706), 14

CNG

- Internal combustion engines,
 - Code of practice (MS 1096), 17

Coiled springs - Suspension, For automobiles (MS 1108), 14

Cutting & welding - Safety, Code of Practice (MS 949), 15

D

Dissolved acetylene cylinders (MS ISO 3807), 5

Draw-off taps, performance tests

- Water services (MS 1461), 11

E

Electric fans

- Circulating fans
 - Performance and construction (MS 1220), 11
- Safety (MS 1597-2-80), 11

- Test code, for airbourne acoustical noise (MS IEC 60704-2-7), 13

Electrical household appliances

- Air-cleaning appliances (MS IEC 60335-2-65), 11
- Electrical heat pumps, air conditioners & dehumidifiers (MS IEC 60335-2-40), 11
- Stationary circulation pumps for heating & service water (MS IEC 60335-2-51), 11
- Storage water heaters (MS IEC 60335-2-21), 11
- Vacuum cleaners and water-suction cleaning appliances (MS IEC 60335-2-2), 10

Electric tools – Safety

- General requirements (MS IEC 60745-1), 13
- Drills and impact drills (MS IEC 60745-2-1), 13
- Hedge trimmers and glass shears (MS IEC 60745-2-15), 13
- Reciprocating saws (Jig and sabre saws) (MS IEC 60745-2-11), 13
- Planers (MS IEC 60745-2-14), 13
- Routers and trimmers (MS IEC 60745-2-17), 13

Electrodes

- Low alloy steel, For covered arc-welding (MS 519), 15
- Mild steel, For covered arc-welding (MS 518), 15
- Mild steel, For gas metal arc welding (MS 520), 15

F

Fans see Electric fans

Fasteners

- Vocabulary
 - Fundamental of screw threads (MS ISO 5408), 1
 - Terminology and nomenclature (MS ISO 1891), 3
 - Symbols and designation of bolt, screws, studs and nuts (MS ISO 225), 3
- Carbon steel and alloy steel
 - Bolts, screws and studs (MS ISO 898-1), 3
 - Nuts - coarse thread (MS ISO 898-2), 3
 - Screws and similar threaded fasteners (MS ISO 898-5), 3
 - Nuts, proof load values – fine pitch thread (MS ISO 898-6), 3
 - Torsional test for bolts and screws (MS ISO 898-7), 4

Ferrules - Specification (MS 1396), 10

Fusion welded joints, radiographic examination

- Up to 200 mm thick (MS 1317 :Pt. 2), 15

G

Gas

- Vocabulary (MS 1464), 5
- Permanent, inspection (MS 1474), 11
 - 1000 pounds water capacity
 - Without electric-arc (MS 641), 11
 - With electric-arc (MS 642), 11
 - Refillable seamless steel
 - Quenched & tempered steel (MS ISO 9809-1), 5
 - Safe handling (MS ISO 11625), 5

- Transportable refillable welded steel – LPG (MS ISO 22991), 5
- Gate valves - Cast iron, Double flanged, Wedge, For waterworks (MS 1049), 10
- Grid –Connected PV system (MS 1837), 18

H

- Hacksaw blades (MS 704), 13
- Hammers (Hand tools) (MS 705), 14
- Hand held motor
 - Particular requirement
 - Circular saws (MS IEC 60745-2-5), 13
 - Grinders, polishers and disk type sanders (MS IEC 60745-2-3) , 13
 - Hedge trimmers and grass shears (MS IEC 60745-2-15),13
 - Reciprocating saws (Jig and sabre saws) (MS IEC 60745-2-11), 13
 - Planers (MS IEC 60745-2-14), 13
 - Routers and trimmers (MS IEC 60745-2-17), 13
 - Sanders and polishers (MS IEC 60745-2-4), 13, 14
- Heat pumps (MS ISO 5151),17
- Hexagon socket set screws,
 - Cone point (MS ISO 4027), 4
 - Cup point (MS ISO 4029), 4
 - Dog point ((MS ISO 4028), 4
 - Flat point (MS ISO 4026) , 4
- Hose
 - Rubber and plastics
 - Vocabulary (MS ISO 8330), 9
- Hot box, calibrated and guarded (MS 1532), 18
- Hot-dip galvanizing
 - Coatings on iron & steel products (MS 740), 16
 - Threaded fasteners (MS 739), 3
- Household electrical appliances
 - Storage water heaters (MS IEC 60335-2-21), 11
 - Vacuum cleaner and water-suction cleaning appliances (MS IEC 60335-2-2), 10
- Hydrostatic stretch tests- Liquefiable- Gas cylinders (MS 217), 11

I

- Internal combustion engine
 - Full-flow lubricating engine
 - Differential pressure / flow characteristics (MS ISO 4548-1), 17
 - Element by-pass valve characteristics (MS ISO 4548-2), 17
 - Resistance to high differential pressure & to elevated temperature (MS ISO 4548-3), 17
 - Initial particle retention efficiency, life & cumulative efficiency (MS ISO 4548-4), 17
 - Cold start simulation and hydraulic pulse durability test (MS ISO 4548-5), 17
 - Static burst pressure test (MS ISO 4548-6), 17
 - Vibration fatigue test (MS ISO 4548-7), 18
 - Inlet & outlet anti-drain valve tests (MS ISO 4548-9), 18
 - Self-cleaning filters (MS ISO 4548-11), 18
 - Filtration efficiency using particle counting and contaminant retention capacity (MS ISO 4548-12), 18

L

- Liquefied petroleum gas
 - Cylinders, inspection (MS 1475), 11

M

- Mattresses, Latex foam rubber
 - Spring (MS 1861), 4
- Metal working power presses (MS 490), 1

P

- Photovoltaic (PV) modules - Design, installation and maintenance
 - Crystalline silicon terrestrial (MS IEC 61215), 17
 - Thin-film terrestrial (MS IEC 61646), 17
- Photovoltaic (PV) system, connected
 - Installation of grid (MS 1837 : 2005), 17
- Pipe fittings
 - Malleable cast iron, For steam, gas, air & oil (MS 636), 5
 - Plastic waste pipe & fittings (MS 978), 6
 - Unplasticised PVC sewerage pipe & fittings (MS 979:Pt. 1), 6
 - Unplasticised PC, Soil & ventilating (MS 1063) , 5
 - Unplasticised PVC, Underground sewerage pipe & fittings (MS 979:Pt. 2), 6
 - Unplasticised PVC, Dimension of socket (MS ISO 727), 9
 - Acrylonitrile butadiene styrene, pressure application
 - Pipes (MS 1419:Pt.1), 8
 - Solvent cement fittings (MS 1419:Pt.2), 8
 - Solvent cement and priming (MS 1419:Pt.3), 9
 - Installation of ABS pipe systems (MS 1419:Pt.4), 7, 9
- Pipes
 - Polyethylene, pipes for water supply (MS 1058:Pt.1), 7
 - Pressure, Welded & seamless carbon steel (MS 862), 5
 - Steel, Welded & seamless, 6 mm - 150 mm Screw type (MS 863), 6
 - Unplasticized PVC, For water supply (MS 628:Pt.1), 6
 - Unplasticized PVC, For industrial use (MS 762), 6
 - Unplasticized PVC, Joints and fittings (MS 628:Pt.2-2.1), 6
 - Unplasticized PVC, Guide for installation (MS 628:Pt.3), 6
 - Unplasticized PVC, Solvent cement (MS 628:Pt.2-2.2), 6
 - Part 1 : Unplasticized poly(vinyl chloride) (PVC-U) (MS ISO 265-1), 7
 - Injection-moulded PVC-U,
 - Oven test (MS ISO 580), 7
 - Crushing test (MS ISO 9853), 8
- Pipework systems - Unplasticized PVC, Code of Practice (MS 1035), 6
- Pistons
 - For internal combustion engines, Nomenclature (MS 591), 17
- Planers (MS IEC 60745-2-14), 13
- Plastics piping and ducting systems – Hydrostatics strength (MS ISO 9080), 7
- Plastic pipes, conveyance
 - Miner's rules – calculation method (MS ISO 13760), 8
- Polyethylene (PE) piping systems
 - General (MS 1058:Pt.1), 7
 - Pipes (MS 1058:Pt.2), 7
- Pressure regulators
 - For liquefied petroleum gases (MS 1165), 10
- PVC
 - Rigid PVC (MS 1010), 8
 - PVC-U pipes – DCMT , test method (MS ISO 9852), 8

R

- Rivets - Hot-forged (MS 593), 4
- Roller chains - Short pitch, Precision (MS 521), 4
- Routers and trimmers (MS IEC 60745-2-17), 13
 - Seals-water stops, materials (MS 1292), 9
- Rubber hose
 - Compressed air (MS ISO 2398), 9
- Rubber hoses and hose assemblies
 - Washing-machines and dishwashers ((MS ISO 6804), 9
 - Selection, storage, use & maintenance (MS ISO 8331), 9

S

- Safety hand-held
 - Grinders, Polishers and disk type sanders (MS IEC 60745 :Pt.2-3), 13
 - Sanders and polishes other than disk type (MS IEC 60745:Pt.2-4), 13, 14
 - Circular saws (MS IEC 60745:Pt.2-5), 13
 - Spray guns for non-flammable (MS IEC 60745:Pt.2-7), 13
- Screw threads
 - Vocabulary
 - Fundamental (MS ISO 5408), 1
 - Terminology and nomenclature (MS ISO 1891), 3
 - Metric screw threads (MS ISO 68-1), 1
 - Basic dimensions (MS ISO 724), 1
 - General plan (MS ISO 261), 1
 - Gauges and gauging (MS ISO 1502), 2
 - Selected sizes for screws, bolts and nuts (MS ISO 262), 1
 - Tolerance of
 - ISO metric (MS ISO 965-1), 1
 - Limits of sizes, external and internal (MS ISO 965-2), 2
 - Deviations for constructional (MS ISO 965-3), 2
 - Limit of sizes, external screw thread with hot-dip galvanized internal screw threads (MS ISO 965-4), 2
 - Limit of sizes, internal screw thread - mate with hot-dip galvanized external screw threads (MS ISO 965-5), 2
 - ISO metric (MS 221), 1
 - Trapezoidal
 - Basic dimensions (MS ISO 2904), 2
 - Basic profile and maximum material profile (MS ISO 2901), 2
 - General plan (MS ISO 2902), 2
 - Tolerances (MS ISO 2903), 2
- Screwdrivers (MS 711), 14
- Solar energy engineering
 - Crystalline silicon terrestrial photovoltaic (PV) modules (MS IEC 61215), 17
 - Grid (MS 1837), 17
 - Thin-film terrestrial photovoltaic (PV) modules (MS IEC 61646), 17
- Solders
 - Resin flux cored (MS 964), 15
 - Soft (MS 870), 15
- Stainless steel pipes (MS 1841), 6
 - Piping – Wrought austenitic (MS 1842), 8
 - Pipes, Welded & seamless, 6 mm-150 mm Screw types (MS 863), 6
 - Pressure pipes, Welded & seamless carbon steel pipe (MS 862), 5
- Stopvalves - Specification (MS 1022), 10

T

- Thermal insulation - calibrated and guarded hot box (MS 1532),17
 - Thermoplastics pipes
 - Universal wall thickness table (MS ISO 4065), 7
 - Conveyance of fluids
 - Inch-based series (MS ISO 11922-2), 8
 - Metric series (MS ISO 11922-1), 8
 - Pressure applications (MS ISO 12162), 8, 9
 - Thermoplastics pipes, External blows
 - Round-the-clock method (MS ISO 3127), 7
 - Staircase method (MS ISO 11173), 8
 - Thermoplastic, Method of test for plastics
 - General test method (MS ISO 2507-1), 7, 9
 - PVC-U, PVC-C and PVC-HI (MS ISO 2507-2), 7, 9
 - Thermoplastics pipes, Longitudinal reversion
 - Part 1 : Determination methods (MS ISO 2505-1), 7
 - Part 2 : Determination parameter (MS ISO 2505-2), 7
 - Threads, pressure-tight joints
 - Made on threads
 - Dimensions, tolerance and designation (MS ISO 7-1), 2
 - Verification by means of limit gauges (MS ISO 7-2), 2
 - Not made on threads
 - Dimensions, tolerance and designation(MS ISO 228-1),2
 - Verification by means of limit gauges(MS ISO 228-2), 3
 - Threaded fasteners - Hot-dip galvanized coatings on (MS 739), 3
- V**
- V-belt pulley (MS ISO 1604), 2
 - Valves
 - Cast iron, Double flanged, For waterworks (MS 1049), 10
 - Float operated, Piston type (MS 1882), 10
 - For use with domestic LPG cylinders (MS 831), 10
 - Stopvalves (MS1022), 10
 - Vacuum cleaners and water-suction cleaning appliances (MS IEC 60335-2-2), 10
- W**
- Water tanks
 - Fibreglass, capacity of less than 2000 liters (MS 1241), 5
 - Welded carbon steel gas cylinder, inspection (MS 1720), 10
 - Welders, qualifications, steels (MS 1206: Pt. 1), 14
 - Welding
 - Fusion welding (MS ISO 9956-1), 14
 - Arc welding (MS ISO 9956-2), 14
 - Steels (MS ISO 9956-3), 14
 - Aluminium and alloys (MS ISO 9956-4), 14
 - Welding consumables (MS ISO 9956-5), 14
 - Approval related to previous experience (MS ISO 9956-6), 14
 - Standard welding procedure (MS ISO 9956-7), 15
 - Pre-production welding test (MS ISO 9956-8), 15
 - Electron beam welding (MS ISO 9956-10),1 5
 - Laser beam welding (MS ISO 9956-11), 15
 - Glossary (MS 1046), 14
 - Safety, Code of Practice (MS 949), 15
 - Wire - Galvanized, Zinc coated (MS 407), 16
 - Woodworking machines - Safety, Code of Practice (MS 491), 1

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