

## MALAYSIAN STANDARD

MS 1988:2023

Welded stainless steel tubes for the conveyance of water and other aqueous liquids – Technical delivery conditions (EN 10312:2002 including its Amendment EN 10312/A1:2005) (First revision)

ICS: 23.040.10

Descriptors: welded stainless steel tubes, conveyance, water, other aqueous liquids, technical delivery conditions

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For further information on Malaysian Standards, please contact:

**Department of Standards Malaysia** 

Level 4 – 7, Tower 2, Menara Cyber Axis

Jalan Impact, Cyber 6 63000 Cyberjaya Selangor Darul Ehsan

**MALAYSIA** 

Tel: 60 3 8008 2900

Fax: 60 3 8008 2901

http://www.jsm.gov.my

E-mail: central@jsm.gov.my

## **Committee representation**

The National Standards Committee on Mechanical Engineering (NSC 06) under whose authority this Malaysian Standard was adopted, comprises representatives from the following organisations:

Department of Occupational Safety and Health Malaysia Department of Standards Malaysia (Secretariat) Federation of Malaysian Manufacturers Jabatan Kerja Raya Malaysia Machinery and Equipment Manufacturers Association of Malaysia Malaysian Investment Development Authority Malaysian Iron and Steel Industry Federation Ministry of Investment, Trade and Industry National Institute of Occupational Safety and Health PETRONAS Group Technical Solutions Playground Safety Association of Malaysia SIRIM QAS International Sdn Bhd Science and Technology Research Institute for Defence Suruhanjaya Perkhidmatan Air Negara Suruhanjaya Tenaga The Institution of Engineers, Malaysia Universiti Kebangsaan Malaysia Universiti Malaya Universiti Sains Malaysia Universiti Teknologi Malaysia

The Technical Committee on Metallic Pipes and Fittings (NSC 06/TC 13) which supervised the adoption of the EN Standard as Malaysian Standard consists of representatives from the following organisations:

Construction Industry Development Board
Department of Standards Malaysia (Secretariat)
Engtex Ductile Iron Pipe Industry
GAD Engineering Services
Gas Malaysia Sdn Bhd
HOTO Stainless Steel Sdn Bhd
Jabatan Kerja Raya
Malaysian Iron and Steel Industry Federation
Megasteel Sdn Bhd
SIRIM QAS International Sdn Bhd
Suruhanjaya Perkhidmatan Air Negara
Suruhanjaya Tenaga
Tenaga Nasional Berhad
Universiti Teknologi Malaysia

The Working Group Committee on Stainless Steel Tube (NSC 06/TC 13/WG 1) recommended the adoption of the EN Standard as Malaysian Standard consists of representatives from the following organisations:

Department of Standards Malaysia (Secretariat)
HOTO Stainless Steel Sdn Bhd
Ikram QA Services Sdn Bhd
Infitron (M) Sdn Bhd
Malaysia Steel Institute
Malaysian Iron and Steel Industry Federation
SIRIM QAS International Sdn Bhd
Suruhanjaya Perkhidmatan Air Negara
Watermarks Certification Malaysia Sdn Bhd

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## **National foreword**

The adoption of the EN Standard as a Malaysian Standard was recommended by the Working Group on Stainless Steel Tube (NSC 06/TC 13/WG 1) under the authority of the National Standards Committee on Mechanical Engineering (NSC 06).

The first revision of MS 1988 cancels and replaces MS 1988:2007, Welded Stainless Steel Tubes for The Conveyance of Water and Other Aqueous Liquids - Technical Delivery Conditions and Includes Amendment A1.

This Malaysian Standard is identical with EN 10312:2002, *Welded stainless steel tubes for the conveyance of water and other aqueous liquids – Technical delivery conditions,* including its Amendment, EN 10312/A1:2005 published by the European Committee for Standardization (CEN). However, for the purposes of this Malaysian Standard, the following apply:

- a) in the source text, "this European Standard" should read "this Malaysian Standard";
- b) the comma which is used as a decimal sign (if any), to read as a point; and
- c) references to European Standard in bibliography should be replaced by equivalent Malaysian Standard as follows:

Referenced European Standard	Corresponding Malaysian Standard
EN ISO 9001, Quality management systems  – Requirements	MS ISO 9001, Quality management systems – Requirements

- d) Clause 15 (EN 10312:2002) and Foreword (EN 10312/A1:2005) are recommended to be included in the manufacturer's quality plan as part of the quality management system and for establishing certification procedures; and
- e) Annex ZA found in this standard is however not applicable in Malaysia.

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Compliance with a Malaysian Standard does not of itself confer immunity from legal obligations.