

# 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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### **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 Malava 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:

Referencec	l 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.