



MALAYSIAN STANDARD

MS 1076:2023

Tinplate and blackplate - Specification (Second revision)

ICS: 77.140.50

Descriptors: tinplate, blackplate, specification

© Copyright 2023

DEPARTMENT OF STANDARDS MALAYSIA

DEVELOPMENT OF MALAYSIAN STANDARDS

The **Department of Standards Malaysia** is the national standards and accreditation body of Malaysia.

The main function of the Department of Standards Malaysia is to foster and promote standards, standardisation and accreditation as a means of advancing the national economy, promoting industrial efficiency and development, benefitting 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. The use of Malaysian Standards 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.

Malaysian Standards are developed through consensus by committees which comprise balanced representation of producers, users, consumers and others with relevant interests, as may be appropriate to the subject at hand. The development of a standard as a Malaysian Standard is governed by the Standards of Malaysia Act 1996 [Act 549]. Section 18A of the act stipulated that, all Malaysian Standards are owned by the Government of Malaysia and no part of a Malaysian Standard can be reproduced in any form without the written permission of the Director General.

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

Contents

	Page
Committee representation	ii
Foreword.....	iii
1 Scope	1
2 Normative references	1
3 Terms and definitions	1
4 Classification and symbols, and applicable thickness	2
5 Information to be supplied by the purchaser	3
6 Designation	4
7 Manufacturing features	4
8 Specific requirements	7
9 Tin coating mass.....	7
10 Dimensions and shape	9
11 Packaging and marking	12
12 Joints within a coil	15
13 Test specimen and test piece	15
14 Test.....	16
15 Inspection and reinspection	17
16 Dispatch and packaging	17
17 Appearance.....	18
Annex A Test methods for determining tin coating mass	19
Annex B Proof strength of tinplates and blackplates	29
Bibliography	30

MS 1076:2023

Committee representation

The National Standards Committee on Metallic Materials and Semi-finished Products (NSC 16) under whose authority this Malaysian Standard was developed, comprises representatives from the following organisations:

Association of Consulting Engineers Malaysia
Construction Industry Development Board Malaysia
Department of Standards Malaysia (Secretariat)
Federation of Malaysian Manufacturer
IKRAM QA Services Sdn. Bhd
Jabatan Kerja Raya
Malaysia Steel Association
Malaysia Steel Institute
Malaysian Iron and Steel Industry Federation
Master Builders Association Malaysia
Ministry of International Trade and Industry
SIRIM Berhad
SIRIM QAS International Sdn Bhd
The Institution of Engineers, Malaysia
Universiti Malaya
Universiti Sains Malaysia
Universiti Teknologi Malaysia

The Technical Committee on Continuous Mill, Flat, Rolled Products (NSC 16/TC 2) which developed this Malaysian Standard consists of representatives from the following organisations:

Construction Industry Development Board Malaysia
Department of Standards Malaysia (Secretariat)
IKRAM QA Services Sdn Bhd
Jabatan Kerja Raya
Malaysia Steel Association
Malaysia Steel Institute
Malaysian Iron and Steel Industry Federation
Master Builders Association Malaysia
SIRIM QAS International Sdn Bhd (Product Certification & Inspection Department)
SIRIM QAS International Sdn Bhd (Materials Integrity Section)
The Institution of Engineers, Malaysia
Universiti Malaya

Co-opted members:

CSC Steel Sdn Bhd
Mycron Steel CRC Sdn Bhd
NS Bluescope Malaysia Sdn Bhd
NS Bluescope Lysaght Malaysia Sdn Bhd
Perusahaan Sadur Timah Malaysia (PERSTIMA) Berhad

Foreword

This Malaysian Standard was developed by the Technical Committee on Continuous Mill, Flat, Rolled Products (NSC 16/TC 2) under the authority of the National Standards Committee on Metallic Materials and Semi Finished Products (NSC 16).

This second revision of MS 1076 cancels and replaces MS 1076:2012, *Tinplate and Blackplate - Specification for electrolytic tinplate pipes for industrial use*.

Major modifications in this revision are as follows:

- a) incorporation of "Hot-dipped tinplate, SPTH" in Clause 4 and Clause 9;
- b) incorporation of "Temper designation T 3.4" in Clause 7;
- c) additional Clause 17 on "Appearance";
- d) replace Subclause "Tensile test" with Annex B on "Proof strength of tinplates and blackplates";
- e) replace Subclause 9.1 according to Subclause 7.1 in JIS G 3303; and
- f) additional Subclause 9.2 according to Subclause 7.2 in JIS G 3303.

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