



MALAYSIAN STANDARD

MS ISO 6508-3:2009

METALLIC MATERIALS - ROCKWELL HARDNESS TEST - PART 3: CALIBRATION OF REFERENCE BLOCKS (SCALES A, B, C, D, E, F, G, H, K, N, T) (FIRST REVISION) (ISO 6508-3:2005, IDT)

ISO 6508-3:2005 is endorsed as Malaysian Standard with the reference number MS ISO 6508-3:2009.

ICS: 77.040.10

Descriptors: metallic materials, Rockwell, hardness test, calibration, reference blocks, indirect verification

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Committee representation

The Industry Standards Committee on Mechanical Engineering (ISC F) 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
Jabatan Kerja Raya Malaysia
Machinery and Equipment Manufacturers' Association
Malaysian Industrial Development Authority
Malaysian Iron and Steel Industry Federation
Ministry of International Trade and Industry
National Institute of Occupational Safety and Health
National Water Services Commission
Petroleum Nasional Berhad
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The Institution of Engineers, Malaysia
Universiti Kebangsaan Malaysia
Universiti Malaya
Universiti Sains Malaysia
Universiti Teknologi Malaysia

The Technical Committee on Mechanical Testing of Metallic Materials which recommended the adoption of the ISO Standard consists of representatives from the following organisations:

Construction Industry Development Board Malaysia
Institute of Materials Malaysia
Jabatan Kerja Raya Malaysia
Malaysian Iron and Steel Industry Federation
Metallurgical Consultancy and Services Sdn Bhd
SIRIM Berhad (Advanced Manufacturing Research Centre)
SIRIM Berhad (National Metrology Laboratory)
SIRIM Berhad (Secretariat)
SIRIM QAS International Sdn Bhd
The Institution of Engineers, Malaysia
The Leader Computerised Vehicle Inspection
Universiti Malaya
Universiti Teknologi Malaysia
Universiti Teknologi MARA

Co-opted members:

Department of Occupational Safety and Health Malaysia
PETRONAS Group Technology Solutions
SHELL Refining Company (Federation of Malaya) Berhad
Universiti Teknologi PETRONAS

NATIONAL FOREWORD

The adoption of the ISO Standard as a Malaysian Standard was recommended by the Technical Committee on Mechanical Testing of Metallic Materials under the authority of the Industry Standards Committee on Mechanical Engineering.

This Malaysian Standard is the first revision of MS ISO 6508-3, *Metallic materials - Rockwell hardness test – Part 3: Calibration of reference blocks (scales A, B, C, D, E, F, G, H, K, N, T)*.

This Malaysian Standard is identical with ISO 6508-3:2005, *Metallic materials - Rockwell hardness test - Part 3: Calibration of reference blocks (scales A, B, C, D, E, F, G, H, K, N, T)*, published by the International Organization for Standardization (ISO). However, for the purposes of this Malaysian Standard, the following apply:

- a) in the source text, "this International 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) reference to International Standards should be replaced by equivalent Malaysian Standards as follows:

Referenced International Standards

Corresponding Malaysian Standards

ISO 376, *Metallic materials - Calibration of force-proving instruments used for the verification of uniaxial testing machines*

MS ISO 376, *Metallic materials - Calibration of force-proving instruments used for the verification of uniaxial testing machines*

MS ISO 6508 consists of the following parts, under the general title *Metallic materials - Rockwell hardness test*:

Part 1: Test method (scales A, B, C, D, E, F, G, H, K, N, T)

Part 2: Verification and calibration of testing machines (scales A, B, C, D, E, F, G, H, K, N, T)

Part 3: Calibration of reference blocks (scales A, B, C, D, E, F, G, H, K, N, T)

This Malaysian Standard cancels and replaces MS ISO 6508-3:2001 and MS ISO 1355:2000.

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

NOTE. IDT on the front cover indicates an identical standard i.e. a standard where the technical content, structure, and wording (or is an identical translation) of a Malaysian Standard is exactly the same as in an International Standard or is identical in technical content and structure although it may contain the minimal editorial changes specified in clause 4.2 of ISO/IEC Guide 21-1.

**Metallic materials — Rockwell hardness
test —**

Part 3:
**Calibration of reference blocks (scales A,
B, C, D, E, F, G, H, K, N, T)**

Matériaux métalliques — Essai de dureté Rockwell —

*Partie 3: Étalonnage des blocs de référence (échelles A, B, C, D, E, F,
G, H, K, N, T)*



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ISO copyright office
Case postale 56 • CH-1211 Geneva 20
Tel. + 41 22 749 01 11
Fax + 41 22 749 09 47
E-mail copyright@iso.org
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Foreword

ISO (the International Organization for Standardization) is a worldwide federation of national standards bodies (ISO member bodies). The work of preparing International Standards is normally carried out through ISO technical committees. Each member body interested in a subject for which a technical committee has been established has the right to be represented on that committee. International organizations, governmental and non-governmental, in liaison with ISO, also take part in the work. ISO collaborates closely with the International Electrotechnical Commission (IEC) on all matters of electrotechnical standardization.

International Standards are drafted in accordance with the rules given in the ISO/IEC Directives, Part 2.

The main task of technical committees is to prepare International Standards. Draft International Standards adopted by the technical committees are circulated to the member bodies for voting. Publication as an International Standard requires approval by at least 75 % of the member bodies casting a vote.

Attention is drawn to the possibility that some of the elements of this document may be the subject of patent rights. ISO shall not be held responsible for identifying any or all such patent rights.

ISO 6508-3 was prepared by Technical Committee ISO/TC 164, *Mechanical testing of metals*, Subcommittee SC 3, *Hardness testing*.

This second edition cancels and replaces the first edition (ISO 6508-3:1999), which has been technically revised.

ISO 6508 consists of the following parts, under the general title *Metallic materials — Rockwell hardness test*:

- *Part 1: Test method (scales A, B, C, D, E, F, G, H, K, N, T)*
- *Part 2: Verification and calibration of testing machines (scales A, B, C, D, E, F, G, H, K, N, T)*
- *Part 3: Calibration of reference blocks (scales A, B, C, D, E, F, G, H, K, N, T)*