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Metallic materials - Rockwell hardness test - Part 3: Calibration of reference blocks
(scales A, B, C, D, E, F, G, H, K, N, T) (ISO 6508-3:2005)

Metallische Werkstoffe - Härteprüfung nach Rockwell - Teil 3: Kalibrierung von
Härtevergleichsplatten (Skalen A, B, C, D, E, F, G, H, K, N, T) (ISO 6508-3:2005)

Matériaux métalliques - Essai de dureté Rockwell - Partie 3: Etalonnage des blocs de
référence (échelles A, B, C, D, E, F, G, H, K, N, T) (ISO 6508-3:2005)

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English Version

**Metallic materials - Rockwell hardness test - Part 3: Calibration
of reference blocks (scales A, B, C, D, E, F, G, H, K, N, T) (ISO
6508-3:2005)**

Matériaux métalliques - Essai de dureté Rockwell - Partie 3:
Etalonnage des blocs de référence (échelles A, B, C, D, E,
F, G, H, K, N, T) (ISO 6508-3:2005)

Metallische Werkstoffe - Härteprüfung nach Rockwell - Teil
3: Kalibrierung von Härtevergleichsplatten (Skalen A, B, C,
D, E, F, G, H, K, N, T) (ISO 6508-3:2005)

This European Standard was approved by CEN on 14 December 2005.

CEN members are bound to comply with the CEN/CENELEC Internal Regulations which stipulate the conditions for giving this European Standard the status of a national standard without any alteration. Up-to-date lists and bibliographical references concerning such national standards may be obtained on application to the Central Secretariat or to any CEN member.

This European Standard exists in three official versions (English, French, German). A version in any other language made by translation under the responsibility of a CEN member into its own language and notified to the Central Secretariat has the same status as the official versions.

CEN members are the national standards bodies of Austria, Belgium, Cyprus, Czech Republic, Denmark, Estonia, Finland, France, Germany, Greece, Hungary, Iceland, Ireland, Italy, Latvia, Lithuania, Luxembourg, Malta, Netherlands, Norway, Poland, Portugal, Slovakia, Slovenia, Spain, Sweden, Switzerland and United Kingdom.

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EUROPEAN COMMITTEE FOR STANDARDIZATION
COMITÉ EUROPÉEN DE NORMALISATION
EUROPÄISCHES KOMITEE FÜR NORMUNG

Management Centre: rue de Stassart, 36 B-1050 Brussels

Foreword

This document (EN ISO 6508-3:2005) has been prepared by Technical Committee ISO/TC 164 "Mechanical testing of metals" in collaboration with Technical Committee ECISS/TC 1 "Steel - Mechanical testing", the secretariat of which is held by AFNOR.

This European Standard shall be given the status of a national standard, either by publication of an identical text or by endorsement, at the latest by June 2006, and conflicting national standards shall be withdrawn at the latest by June 2006.

This document supersedes EN ISO 6508-3:1999.

According to the CEN/CENELEC Internal Regulations, the national standards organizations of the following countries are bound to implement this European Standard: Austria, Belgium, Cyprus, Czech Republic, Denmark, Estonia, Finland, France, Germany, Greece, Hungary, Iceland, Ireland, Italy, Latvia, Lithuania, Luxembourg, Malta, Netherlands, Norway, Poland, Portugal, Slovakia, Slovenia, Spain, Sweden, Switzerland and United Kingdom.

Endorsement notice

The text of ISO 6508-3:2005 has been approved by CEN as EN ISO 6508-3:2005 without any modifications.

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**Metallic materials — Rockwell hardness
test —**

Part 3:

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

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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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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)

Introduction

Attention is drawn to the fact that in this part of ISO 6508, the use of hardmetal for ball indenters is considered to be the standard type of Rockwell indenter ball. Steel indenter balls may be continued to be used if specified in a product specification, or by special agreement.

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Metallic materials — Rockwell hardness test —

Part 3:

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

1 Scope

This part of ISO 6508 specifies a method for the calibration of reference blocks to be used for the indirect verification of Rockwell hardness testing machines (scales A, B, C, D, E, F, G, H, K, N, T), as specified in ISO 6508-2.

2 Normative references

The following referenced documents are indispensable for the application of this document. For dated references, only the edition cited applies. For undated references, the latest edition of the referenced document (including any amendments) applies.

ISO 376:2004, *Metallic materials — Calibration of force-proving instruments used for verification of uniaxial testing machines*

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ISO 4287:1997, *Geometrical Product Specifications (GPS) — Surface texture: Profile method — Terms, definitions and surface texture parameters*

ISO 6508-1, *Metallic materials — Rockwell hardness test — Part 1: Test method (scales A, B, C, D, E, F, G, H, K, N, T)*

ISO 6508-2, *Metallic materials — Rockwell hardness test — Part 2: Verification and calibration of testing machines (scales A, B, C, D, E, F, G, H, K, N, T)*

3 Manufacture of reference blocks

3.1 The block shall be specially manufactured for use as a hardness-reference block.

NOTE Attention is drawn to the need to use a manufacturing process which will give the necessary homogeneity, stability of structure and uniformity of surface hardness.

3.2 Each metal block to be calibrated shall be of a thickness not less than 6 mm.

Reference blocks should have a thickness of 6 mm to 16 mm. To minimize the effect of hardness change with increasing number of indents, a minimum thickness of 12 mm should be used for steel. For other materials, different thicknesses could be used.

3.3 The reference blocks shall be free of magnetism. It is recommended that the manufacturer ensure that the blocks, if made of steel, have been demagnetized at the end of the manufacturing process (before calibration).