

Metallic materials — Hardness test —

Part 1: Rockwell test (scales A, B, C, D, E, F, G, H, K) and Rockwell superficial test (scales 15 N, 30 N, 45 N, 15 T, 30 T and 45 T)

The European Standard EN 10109-1:1994 has the status of a British Standard

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Committees responsible for this British Standard

The preparation of this British Standard was entrusted to Technical Committee ISE/NFE/4, Mechanical testing of metals, upon which the following bodies were represented:

- AEA Technology
- Aluminium Federation
- British Non-Ferrous Metals Federation
- British Railways Board
- British Steel Industry
- Copper Development Association
- Department of Trade and Industry (National Physical Laboratory)
- Department of Trade and Industry (National Measurement Accreditation Service)
- ERA Technology Ltd.
- Electricity Association
- GAMBICA (BEAMA Ltd.)
- Institute of Materials
- Light Metal Founders' Association
- Ministry of Defence
- Society of British Aerospace Companies Ltd.
- University College London
- Welding Institute

The following bodies were also represented in the drafting of the standard, through subcommittees and panels:

- Department of Trade and Industry (National Engineering Laboratory)
- Society of Motor Manufacturers and Traders Ltd.

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National foreword

This British Standard has been prepared by Technical Committee ISE/NFE/4. It is identical with EN 10109-1 *Metallic materials — Hardness test — Part 1: Rockwell test (scales A, B, C, D, E, F, G, H, K) and Rockwell superficial test (scales 15N, 30N, 45N, 15T, 30T and 45T)* drawn up by ECISS (European Committee for Iron and Steel Standardization). It supersedes BS 891:1989 and BS 4175:1989 which are withdrawn.

Cross-references

Publication referred to	Corresponding British Standard
EN 10109-2:1994	BS EN 10109 <i>Metallic materials — Hardness test Part 2:1996 Verification of Rockwell hardness testing machines (scales A, B, C, D, E, F, G, H, K, N, T)</i>
EN 24498-1:1992	BS EN 24498 <i>Sintered metal materials, excluding hardmetals — Determination of apparent hardness Part 1:1993 Materials of essentially uniform section hardness.</i>

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Summary of pages

This document comprises a front cover, an inside front cover, pages i and ii, the EN title page, pages 2 to 12, an inside back cover and a back cover.

This standerd has been updated (see copyright date) and may have had amendments incorporated. This will be indicated in the amendment table on the inside front cover.

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English version

**Metallic materials — Hardness test —
Part 1: Rockwell test (scales A, B, C, D, E, F, G, H, K) and
Rockwell superficial test (scales 15N, 30N, 45N, 15T, 30T
and 45T)**

Matériaux métalliques — Essai de dureté —
Partie 1: Essai Rockwell (échelles A, B, C, D,
E, F, G, H, K) et essai superficiel Rockwell
(échelles 15N, 30N, 45N, 15T, 30T et 45T)

Metallische Werkstoffe-Härteprüfung—
Teil 1: Rockwell-Verfahren (Skalen A, B, C, D,
E, F, G, H, K) und Verfahren N und T (Skalen
15N, 30N, 45N, 15T, 30T, und 45T)

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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.

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CEN

European Committee for Standardization
Comité Européen de Normalisation
Europäisches Komitee für Normung

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Foreword

This European Standard has been prepared by the Technical Committee ECISS/TC 1A, Mechanical and physical tests, the secretariat of which is held by AFNOR.

This European Standard replaces:

- EURONORM 4 *Rockwell hardness test (scales A, B, C, F)*
- EURONORM 109 *Conventional Rockwell hardness test — Rockwell scales HRN and HRT — Rockwell scales HRBm and HR30Tm for thin products*

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 April 1995, and conflicting national standards shall be withdrawn at the latest by April 1995.

According to the CEN/CENELEC Internal Regulations, the following countries are bound to implement this European Standard: Austria, Belgium, Denmark, Finland, France, Germany, Greece, Iceland, Ireland, Italy, Luxembourg, Netherlands, Norway, Portugal, Spain, Sweden, Switzerland and United Kingdom.

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