



BSI Standards Publication

Metallic materials — Vickers hardness test

Part 4: Tables of hardness values (ISO 6507-4:2018)

National foreword

This British Standard is the UK implementation of EN ISO 6507-4:2018. It is identical to ISO 6507-4:2018. It supersedes BS EN ISO 6507-4:2005, which is withdrawn.

The UK participation in its preparation was entrusted to Technical Committee ISE/101/5, Indentation hardness testing.

A list of organizations represented on this committee can be obtained on request to its secretary.

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English Version

Metallic materials — Vickers hardness test — Part 4: Tables of hardness values (ISO 6507-4:2018)

Matériaux métalliques — Essai de dureté
Vickers — Partie 4: Tableaux de valeurs
de dureté (ISO 6507-4:2018)

Metallische Werkstoffe — Härteprüfung nach
Vickers — Teil 4: Tabellen zur Bestimmung
der Härtewerte (ISO 6507-4:2018)

This European Standard was approved by CEN on 18 January 2018.

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European foreword

This document (EN ISO 6507-4:2018) has been prepared by Technical Committee ISO/TC 164 "Mechanical testing of metals" in collaboration with Technical Committee ECISS/TC 101 "Test methods for steel (other than chemical analysis)" 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of an identical text or by endorsement, at the latest by September 2018, and conflicting national standards shall be withdrawn at the latest by September 2018.

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

This document supersedes EN ISO 6507-4:2005.

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

Endorsement notice

The text of ISO 6507-4:2018 has been approved by CEN as EN ISO 6507-4:2018 without any modification.

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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.

The procedures used to develop this document and those intended for its further maintenance are described in the ISO/IEC Directives, Part 1. In particular the different approval criteria needed for the different types of ISO documents should be noted. This document was drafted in accordance with the editorial rules of the ISO/IEC Directives, Part 2 (see www.iso.org/directives).

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For an explanation on the voluntary nature of standards, the meaning of ISO specific terms and expressions related to conformity assessment, as well as information about ISO's adherence to the World Trade Organization (WTO) principles in the Technical Barriers to Trade (TBT) see the following URL: www.iso.org/iso/foreword.html.

This document 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 6507-4:2005), which has been technically revised.

A list of all parts in the ISO 6507 series can be found on the ISO website.

Metallic materials — Vickers hardness test —

Part 4: Tables of hardness values (ISO 6507-4:2018)

1 Scope

This document gives tables of Vickers hardness for use in tests carried out in accordance with ISO 6507-1.

2 Normative references

The following documents are referred to in the text in such a way that some or all of their content constitutes requirements 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 6507-1, *Metallic materials — Vickers hardness test — Part 1: Test method*

3 Terms and definitions

No terms and definitions are listed in this document.

ISO and IEC maintain terminological databases for use in standardization at the following addresses:

- IEC Electropedia: available at <http://www.electropedia.org/>
- ISO Online browsing platform: available at <http://www.iso.org/obp>

4 Tables of Vickers hardness values

The values given in [Tables 1, 2](#) and [3](#) were calculated from the Vickers hardness formula in accordance with ISO 6507-1.

See [Table 1](#) for range < HV 0,2.

See [Table 2](#) for range HV 0,2 to HV 3.

See [Table 3](#) for range HV 5 to HV 100.