

<b>STN</b>	<b>Kovové materiály</b> <b>Brinellova skúška tvrdosti</b> <b>Časť 2: Overovanie a kalibrácia skúšobných</b> <b>strojov (ISO 6506-2: 2017)</b>	<b>STN</b> <b>EN ISO 6506-2</b>  42 0371
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Metallic materials - Brinell hardness test - Part 2: Verification and calibration of testing machines (ISO 6506-2:2017)

Táto norma obsahuje anglickú verziu európskej normy.  
This standard includes the English version of the European Standard.

Táto norma bola oznámená vo Vestníku ÚNMS SR č. 04/19

Obsahuje: EN ISO 6506-2:2018, ISO 6506-2:2017

Oznámením tejto normy sa ruší  
STN EN ISO 6506-2 (42 0371) z apríla 2015

EUROPEAN STANDARD  
NORME EUROPÉENNE  
EUROPÄISCHE NORM

**EN ISO 6506-2**

December 2018

ICS 77.040.10

Supersedes EN ISO 6506-2:2014

English Version

**Metallic materials - Brinell hardness test - Part 2:  
Verification and calibration of testing machines (ISO 6506-  
2:2017)**

Matériaux métalliques - Essai de dureté Brinell - Partie  
2: Vérification et étalonnage des machines d'essai (ISO  
6506-2:2017)

Metallische Werkstoffe - Härteprüfung nach Brinell -  
Teil 2: Überprüfung und Kalibrierung der  
Prüfmaschinen (ISO 6506-2:2017)

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**EN ISO 6506-2:2018 (E)**

<b>Contents</b>	<b>Page</b>
<b>European foreword.....</b>	<b>3</b>

## **European foreword**

This document (EN ISO 6506-2:2018) 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of an identical text or by endorsement, at the latest by June 2019, and conflicting national standards shall be withdrawn at the latest by June 2019.

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.

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## **Endorsement notice**

The text of ISO 6506-2:2017 has been approved by CEN as EN ISO 6506-2:2018 without any modification.

# INTERNATIONAL STANDARD

**ISO  
6506-2**

Fourth edition  
2017-10

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## **Metallic materials — Brinell hardness test —**

### **Part 2: Verification and calibration of testing machines**

*Matériaux métalliques — Essai de dureté Brinell —*

*Partie 2: Vérification et étalonnage des machines d'essai*



Reference number  
ISO 6506-2:2017(E)

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# Contents

Page

<b>Foreword</b> .....	<b>iv</b>
<b>1 Scope</b> .....	<b>1</b>
<b>2 Normative references</b> .....	<b>1</b>
<b>3 Terms and definitions</b> .....	<b>1</b>
<b>4 General conditions</b> .....	<b>1</b>
<b>5 Direct verification</b> .....	<b>2</b>
5.1 General .....	2
5.2 Measurement of the test forces .....	2
5.3 Measurement of the properties of the indenter ball .....	3
5.4 Calibration of the indentation diameter measuring system .....	3
5.5 Verification of the testing cycle .....	4
<b>6 Indirect verification</b> .....	<b>4</b>
<b>7 Intervals between verifications</b> .....	<b>6</b>
<b>8 Verification report/calibration certificate</b> .....	<b>6</b>
<b>Annex A (informative) Uncertainty of measurement of the verification results of the hardness testing machine</b> .....	<b>8</b>
<b>Annex B (normative) Verification of hardness testing machines that are incapable of meeting the specified force/time profile</b> .....	<b>15</b>
<b>Bibliography</b> .....	<b>16</b>

**ISO 6506-2:2017(E)****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](http://www.iso.org/directives)).

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Any trade name used in this document is information given for the convenience of users and does not constitute an endorsement.

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](http://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 fourth edition cancels and replaces the third edition (ISO 6506-2:2014), which has been technically revised.

The main changes compared to the previous edition are as follows:

- [Clause 3](#) has been added;
- [Table 3](#) has been modified.

A list of all parts in the ISO 6506 series can be found on the ISO website.



# Metallic materials — Brinell hardness test —

## Part 2: Verification and calibration of testing machines

### 1 Scope

This document specifies methods of direct and indirect verification of testing machines used for determining Brinell hardness in accordance with ISO 6506-1 and also specifies when these two types of verification have to be performed.

The direct verification involves checking that individual machine performance parameters fall within specified limits whereas the indirect verification utilizes hardness measurements of reference blocks, calibrated in accordance with ISO 6506-3, to check the machine's overall performance.

If a testing machine is also to be used for other methods of hardness testing, it has to be verified independently for each method.

This document is applicable to both fixed location and portable hardness testing machines. For machines that are incapable of satisfying the specified force-time profile, the direct verification of force and testing cycle can be modified by the use of [Annex B](#).

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

ISO 6506-1:2014, *Metallic materials — Brinell hardness test — Part 1: Test method*

ISO 6506-3, *Metallic materials — Brinell hardness test — Part 3: Calibration of reference blocks*

ISO 6507-1, *Metallic materials — Vickers hardness test — Part 1: Test method*

**koniec náhľadu – text ďalej pokračuje v platenej verzii STN**