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Metallmaterjalid. Vickersi kõvadusteim. Osa 2: Teimiseadmete kontrollimine

Metallic materials - Vickers hardness test - Part 2: Verification and calibration of testing machines



EESTI STANDARDI EESSÕNA

NATIONAL FOREWORD

Käesolev Eesti standard EVS-EN ISO 6507-2:2006 sisaldab Euroopa standardi EN ISO 6507-2:2005 ingliskeelset teksti.	This Estonian standard EVS-EN ISO 6507-2:2006 consists of the English text of the European standard EN ISO 6507-2:2005.
Käesolev dokument on jõustatud 27.02.2006 ja selle kohta on avaldatud teade Eesti standardiorganisatsiooni ametlikus väljaandes.	This document is endorsed on 27.02.2006 with the notification being published in the official publication of the Estonian national standardisation organisation.
Standard on kättesaadav Eesti standardiorganisatsioonist.	The standard is available from Estonian standardisation organisation.
Käsitlusala: See ISO 6507 osa määrab kindlaks meetodi Vickersi kõvaduse teimimisseadmete kontrollimiseks vastavalt standardile ISO 6507-1. Standard kirjeldab seadme põhifunktsioonide otsest kontrollimismeetodit ning kaudset meetodit, mis sobib seadme üldiseks kontrollimiseks. Kaudset kontrollimismeetodit võib kasutada iseseisvalt seadme perioodiliseks tavaliseks kontrollimiseks hoolduse ajal. Kui teimimisseadet kasutatakse ka teiste kõvadusteimimeetodite jaoks, tuleb seadet iga meetodi jaoks eraldi kontrollida.	Scope: This part of ISO 6507 specifies a method of verification of testing machines for determining Vickers hardness in accordance with ISO 6507-1.
ICS 77.040.10	

Võtmesõnad: katsed, kontrollimine, kõvadusteim, metallurgiatooted, proovikeha sissesurumisele avaldatava vastupanu (i, teimiseade, vickersi kõvadusteim

EUROPEAN STANDARD NORME EUROPÉENNE **EUROPÄISCHE NORM**

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English Version

Metallic materials - Vickers hardness test - Part 2: Verification and calibration of testing machines (ISO 6507-2:2005)

Matériaux métalliques - Essai de dureté Vickers - Partie 2: Vérification et étalonnage des machines d'essai (ISO 6507-2:2005)

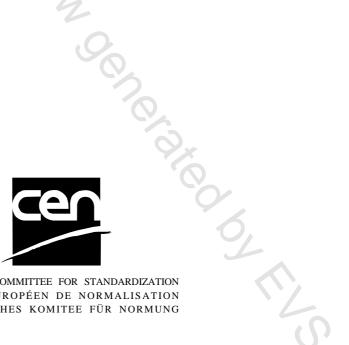
Metallische Werkstoffe - Härteprüfung nach Vickers - Teil 2: Prüfung und Kalibrierung der Prüfmaschinen (ISO 6507-2:2005)

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

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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.

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

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Foreword

This document (EN ISO 6507-2:2005) 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 6507-2:1997.

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, Italy, Latvia, Lithuania, Luxembourg, Malta, Netherlands, Norway, Poland, Portugal, Slovakia, Slovenia, Spain, Sweden, Switzerland and United Kingdom.

Endorsement notice

The text of ISO 6507-2:2005 has been approved by CEN as EN ISO 6507-2:2005 without any modifications.

INTERNATIONAL STANDARD

ISO 6507-2

Third edition 2005-12-15

Metallic materials — Vickers hardness test —

Part 2: Verification and calibration of testing machines

Matériaux métalliques — Essai de dureté Vickers — Partie 2: Vérification et étalonnage des machines d'essai

Reference number ISO 6507-2:2005(E)

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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 6507-2 was prepared by Technical Committee ISO/TC 164, *Mechanical testing of metals*, Subcommittee SC 3, *Hardness testing*.

This third edition cancels and replaces the second edition (ISO 6507-2:1997), which has been technically revised.

ISO 6507 consists of the following parts, under the general title *Metallic materials* — Vickers hardness test:

- Part 1: Test method
- Part 2: Verification and calibration of testing machines
- Part 3: Calibration of reference blocks
- Part 4: Tables of hardness values

Metallic materials — Vickers hardness test —

Part 2: Verification and calibration of testing machines

1 Scope

This part of ISO 6507 specifies a method of verification of testing machines for determining Vickers hardness in accordance with ISO 6507-1.

It specifies a direct verification method for checking the main functions of the machine operation, and an indirect method suitable for the overall checking of the machine. The indirect method may be used on its own for periodic routine checking of the machine in service.

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

This part of ISO 6507 is also applicable to portable hardness testing machines.

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

ISO 3878, Hardmetals — Vickers hardness test

ISO 6507-1:2005, Metallic materials — Vickers hardness test — Part 1: Test method

ISO 6507-3, Metallic materials — Vickers hardness test — Part 3: Calibration of reference blocks

3 General conditions

Before a Vickers hardness testing machine is verified, the machine shall be checked to ensure that it is properly set up in accordance with the manufacturer's instructions:

Especially, it should be checked that:

- a) the plunger holding the indenter is capable of sliding in its guide;
- b) the indenter-holder is firmly mounted in the plunger;
- c) the test force can be applied and removed without shock or vibration and in such a manner that the readings are not influenced;