

SLOVENSKI STANDARD

SIST EN ISO 4507:2007

01-maj-2007

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Sintered ferrous materials, carburized or carbonitrided - Determination and verification of case-hardening depth by a micro-hardness test (ISO 4507:2000)

Sinter-Eisenwerkstoffe, aufgekohlt oder karbonitriert - Bestimmung und Prüfung der Einsatzhärtungstiefe durch Messung der Mikrohärtigkeit (ISO 4507:2000)

Matériaux ferreux frittés, cémentés ou carbonitrurés - Détermination et vérification de la profondeur de cémentation, par mesurage de la microdureté (ISO 4507:2000)

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Ta slovenski standard je istoveten z: EN ISO 4507:2007

ICS:

77.040.10	Mehansko preskušanje kovin	Mechanical testing of metals
77.160	Metalurgija prahov	Powder metallurgy

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en;fr;de

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English Version

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This European Standard was approved by CEN on 28 December 2006.

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 CEN Management Centre 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 CEN Management Centre has the same status as the official versions.

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



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

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

Foreword

The text of ISO 4507:2000 has been prepared by Technical Committee ISO/TC 119 "Powder metallurgy" of the International Organization for Standardization (ISO) and has been taken over as EN ISO 4507:2007 by Technical Committee CEN/SS M11 "Powder metallurgy", the secretariat of which is held by CMC.

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 August 2007, and conflicting national standards shall be withdrawn at the latest by August 2007.

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, Cyprus, Czech Republic, Denmark, Estonia, Finland, France, Germany, Greece, Hungary, Iceland, Ireland, Italy, Latvia, Lithuania, Luxembourg, Malta, Netherlands, Norway, Poland, Portugal, Romania, Slovakia, Slovenia, Spain, Sweden, Switzerland and United Kingdom.

Endorsement notice

The text of ISO 4507:2000 has been approved by CEN as EN ISO 4507:2007 without any modifications.

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**Sintered ferrous materials, carburized or
carbonitrided — Determination and
verification of case-hardening depth by a
micro-hardness test**

*Matériaux ferreux frittés, cémentés ou carbonitrurés — Détermination et
vérification de la profondeur de cémentation, par mesurage de la
microdureté*

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Reference number
ISO 4507:2000(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 3.

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 International Standard may be the subject of patent rights. ISO shall not be held responsible for identifying any or all such patent rights.

International Standard ISO 4507 was prepared by Technical Committee ISO/TC 119, *Powder metallurgy*, Subcommittee SC 3, *Sampling and testing methods for sintered metal materials (excluding hardmetals)*.

This second edition cancels and replaces the first edition (ISO 4507:1978) which has been technically revised.

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Sintered ferrous materials, carburized or carbonitrided — Determination and verification of case-hardening depth by a micro-hardness test

1 Scope

This International Standard specifies methods for determining the case-hardening depth of carburized or carbonitrided sintered ferrous materials by micro-hardness measurement.

The methods are adapted to materials having porosity and only apply to quenched materials.

2 Normative references

The following normative documents contain provisions which, through reference in this text, constitute provisions of this International Standard. For dated references, subsequent amendments to, or revisions of, any of these publications do not apply. However, parties to agreements based on this International Standard are encouraged to investigate the possibility of applying the most recent editions of the normative documents indicated below. For undated references, the latest edition of the normative document referred to applies. Members of ISO and IEC maintain registers of currently valid International Standards.

[SIST EN ISO 4507:2007](#)

ISO 2639, *Steel — Determination and verification of the effective depth of carburized and hardened cases.*

[7507445ced42/sist-en-iso-4507-2007](#)

ISO 4498:—¹⁾, *Sintered metal materials, excluding hardmetals — Determination of apparent hardness and micro-hardness.*

3 Term and definition

For the purposes of this International Standard, the following term and definition applies.

3.1

case-hardening depth

CHD

distance, measured normal to the surface of a case-hardened workpiece at a point at which the hardness corresponds to a specified limit

1) To be published. (Cancels and replaces ISO 4498-1:1990 and ISO 4498-2:1981)