



SLOVENSKI STANDARD
SIST EN ISO 2740:2007

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BUXca Yý U
SIST EN ISO 2740:2000

Sintrane kovine brez trdin - Preskušanci za natezni preskus (ISO 2740:2007)

Sintered metal materials, excluding hardmetals - Tensile test pieces (ISO 2740:2007)

Sintermetalle, ausgenommen Hartmetalle - Zugprobestäbe (ISO 2740:2007)

Matériaux en métal fritté, à l'exclusion des métaux-durs - Éprouvettes pour essai de traction (ISO 2740:2007)

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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

Sintered metal materials, excluding hardmetals - Tensile test
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Matériaux en métal fritté, à l'exclusion des métaux-durs -
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This European Standard was approved by CEN on 28 February 2007.

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.

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

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

Foreword

This document (EN ISO 2740:2007) has been prepared by Technical Committee ISO/TC 119 "Powder metallurgy" in collaboration with 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of an identical text or by endorsement, at the latest by September 2007, and conflicting national standards shall be withdrawn at the latest by September 2007.

This document supersedes EN ISO 2740:1999.

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 2740:2007 has been approved by CEN as EN ISO 2740:2007 without any modifications.

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**Sintered metal materials, excluding
hardmetals — Tensile test pieces**

*Matériaux en métal fritté, à l'exclusion des métaux-durs — Éprouvettes
pour essai de traction*

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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 2740 was prepared by Technical Committee ISO/TC 119, *Powder metallurgy*, Subcommittee SC 3, *Sampling and testing methods for sintered metal materials (excluding hardmetals)*.

This fourth edition cancels and replaces the third edition (ISO 2740:1999), of which it constitutes a minor revision.

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Sintered metal materials, excluding hardmetals — Tensile test pieces

1 Scope

This International Standard is applicable to all sintered metals and alloys, excluding hardmetals.

This International Standard specifies:

- the die cavity dimensions used for making tensile test pieces by pressing and sintering, and by Metal Injection Moulding (MIM) and sintering;
- the dimensions of tensile test pieces machined from sintered and powder forged materials.

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 6892:1998, *Metallic materials — Tensile testing at ambient temperature*

ISO 7500-1:2004, *Metallic materials — Verification of static uniaxial testing machines — Part 1: Tension/compression testing machines — Verification and calibration of the force-measuring system*

3 Method of testing

3.1 Test pieces shall be tested in accordance with ISO 6892, and the tensile test machine shall be calibrated to Class 1, in accordance with ISO 7500-1.

3.2 Data are to be reported for three or more test pieces.

4 Manufacture of test pieces

4.1 Pressed and sintered test pieces

The tensile test pieces shall have thicknesses from 5 mm to 6,5 mm. A thickness tolerance of 1,5 mm accommodates varying apparent densities in metal powders. During testing, the thinner pieces have less grip slippage and are more likely to break near the centre of the gauge length.

If necessary for measuring elongation, marks may be lightly scribed 25 mm apart and symmetrically about the centre-line [see Figures 1 a) and 2 a)]. Between the scribed marks, the thickness shall not vary by more than 0,04 mm. The gauge length shall be scribed in such a way that the tensile properties are not affected.