

SLOVENSKI STANDARD

SIST EN ISO 6892-3:2015

01-julij-2015

Kovinski materiali - Natezni preskus - 3. del: Preskusna metoda pri nizki temperaturi (ISO 6892-3:2015)

Metallic materials - Tensile testing - Part 3: Method of test at low temperature (ISO 6892-3:2015)

Metallische Werkstoffe - Zugversuch - Teil 3: Prüfverfahren bei tiefen Temperaturen (ISO 6892-3:2015)

Matériaux métalliques - Essais de traction - Partie 3 : Méthode d'essai à basse température (ISO 6892-3:2015)

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SIST EN ISO 6892-3:2015

Ta slovenski standard je istoveten z: EN ISO 6892-3:2015

ICS:

77.040.10 Mehansko preskušanje kovin Mechanical testing of metals

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EUROPEAN STANDARD
NORME EUROPÉENNE
EUROPÄISCHE NORM

EN ISO 6892-3

April 2015

ICS 77.040.10

English Version

Metallic materials - Tensile testing - Part 3: Method of test at low temperature (ISO 6892-3:2015)

Matériaux métalliques - Essai de traction - Partie 3:
Méthode d'essai à basse température (ISO 6892-3:2015)

Metallische Werkstoffe - Zugversuch - Teil 3: Prüfverfahren
bei tiefen Temperaturen (ISO 6892-3:2015)

This European Standard was approved by CEN on 3 January 2015.

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-CENELEC Management Centre or to any CEN member.

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

CEN-CENELEC Management Centre: Avenue Marnix 17, B-1000 Brussels

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Foreword

This document (EN ISO 6892-3:2015) 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of an identical text or by endorsement, at the latest by October 2015, and conflicting national standards shall be withdrawn at the latest by October 2015.

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

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Endorsement notice

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INTERNATIONAL STANDARD

**ISO
6892-3**

First edition
2015-04-15

Metallic materials — Tensile testing — Part 3: Method of test at low temperature

*Matériaux métalliques — Essai de traction —
Partie 3: Méthode d'essai à basse température*

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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).

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. Details of any patent rights identified during the development of the document will be in the Introduction and/or on the ISO list of patent declarations received (see www.iso.org/patents).

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 meaning of ISO specific terms and expressions related to conformity assessment, as well as information about ISO's adherence to the WTO principles in the Technical Barriers to Trade (TBT), see the following URL: [Foreword — Supplementary information](#).

The committee responsible for this document is ISO/TC 164, *Metallic materials*, Subcommittee SC 1, *Uniaxial testing*.

This first edition cancels and replaces ISO 15579:2000.

ISO 6892 consists of the following parts, under the general title *Metallic materials — Tensile testing*:

- *Part 1: Method of test at room temperature*
- *Part 2: Method of test at elevated temperature*
- *Part 3: Method of test at low temperature*
- *Part 4: Method of test in liquid helium*

ISO 6892-3:2015(E)**Introduction**

In this edition, there are two methods of testing speeds available. The first one, Method A, is based on strain rates (including crosshead separation rate) with narrow tolerances ($\pm 20\%$) and the second, Method B, is based on conventional strain rate ranges and tolerances. Method A is intended to minimize the variation of the test rates during the moment when strain rate sensitive parameters are determined and to minimize the measurement uncertainty of the test results.

Mechanical properties determined by tensile test at low temperatures have been determined at the same rates at room temperature. This revised part of ISO 6892 incorporates the new set of testing rates of ISO 6892-1 and ISO 6892-2, developed to reduce the variability of test results.

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