ICS 25.160.40 SLOVENSKÁ TECHNICKÁ NORMA August 2016

STN	**Deštruktívne skúšky zvarov kovových materiálov. Skúšanie tvrdosti. Časť 2: Skúšanie mikrotvrdosti zvarových spojov (ISO 9015-2: 2016).**	**STN EN ISO 9015-2** 05 1313

Destructive tests on welds in metallic materials - Hardness testing - Part 2: Microhardness testing of welded joints (ISO 9015-2:2016)

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. 07/16

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EN ISO 9015-2

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Supersedes EN ISO 9015-2:2011

English Version

Destructive tests on welds in metallic materials - Hardness testing - Part 2: Microhardness testing of welded joints (ISO 9015-2:2016)

Essais destructifs des soudures sur matériaux métalliques - Essais de dureté - Partie 2: Essai de microdureté des assemblages soudés (ISO 9015-2:2016)

Zerstörende Prüfung von Schweißverbindungen an metallischen Werkstoffen - Härteprüfung - Teil 2: Mikrohärteprüfung an Schweißverbindungen (ISO 9015-2:2016)

This European Standard was approved by CEN on 24 December 2015.

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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European foreword

This document (EN ISO 9015-2:2016) has been prepared by Technical Committee ISO/TC 44 "Welding and allied processes" in collaboration with Technical Committee CEN/TC 121 “Welding” the secretariat of which is held by DIN.

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of an identical text or by endorsement, at the latest by August 2016, and conflicting national standards shall be withdrawn at the latest by August 2016.

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

The text of ISO 9015-2:2016 has been approved by CEN as EN ISO 9015-2:2016 without any modification.

INTERNATIONAL STANDARD

ISO 9015-2

Second edition
2016-02-01

Destructive tests on welds in metallic materials — Hardness testing —

Part 2: Microhardness testing of welded joints

Essais destructifs des soudures sur matériaux métalliques — Essais de dureté —

Partie 2: Essai de microdureté des assemblages soudés

Reference number
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ISO copyright office
Ch. de Blandonnet 8 • CP 401
CH-1214 Vernier, Geneva, Switzerland
Tel. +41 22 749 01 11
Fax +41 22 749 09 47
copyright@iso.org
www.iso.org

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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).

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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 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 44, *Welding and allied processes*, Subcommittee SC 5, *Testing and inspection of welds*.

This second edition cancels and replaces the first edition (ISO 9015-2:2003), of which it constitutes a minor revision.

ISO 9015 consists of the following parts, under the general title *Destructive tests on welds in metallic materials — Hardness testing*:

— *Part 1: Hardness test on arc welded joints*

— *Part 2: Microhardness testing of welded joints*

INTERNATIONAL STANDARD **ISO 9015-2:2016(E)**

Destructive tests on welds in metallic materials — Hardness testing —

Part 2: Microhardness testing of welded joints

1 Scope

This part of ISO 9015 specifies microhardness testing on transverse sections of welded joints of metallic materials with high hardness gradients. It covers Vickers hardness tests in accordance with ISO 6507-1, normally with test loads of 0,98 N to less than 49 N (HV 0,1 to less than HV 5).

NOTE Testing ensures that the highest and/or the lowest level of hardness of both parent materials (in the case of dissimilar materials both parent materials) and weld metal is determined.

This part of ISO 9015 is not applicable to hardness testing of welds with loads of 49,03 N and above, which is covered by ISO 9015-1.

This part of ISO 9015 is not applicable to Vickers hardness testing of resistance spot, projection and seam welds, which is covered by ISO 14271.

This part of ISO 9015 is not applicable to hardness testing of very narrow welds, e.g. those typically produced by laser and electron beam welding (see ISO 22826).

2 Normative references

The following documents, in whole or in part, are normatively referenced in this document and are indispensable for its application. For dated references, only the edition cited applies. For undated references, the latest edition of the referenced document (including any amendments) applies.

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