SLOVENSKI STANDARD
SIST EN ISO 9017:2013

01-december-2013

Nadomešča:
SIST EN 1320:1998

Porušitveni preskusi zvarov na kovinskih materialih - Prelomni preskus (ISO 9017:2001)

Destructive tests on welds in metallic materials - Fracture test (ISO 9017:2001)

Zerstörende Prüfung von Schweißverbindungen an metallischen Werkstoffen - Bruchprüfung (ISO 9017:2001)

Essais destructifs des soudures sur matériaux métalliques - Essai de texture (ISO 9017:2001)

Ta slovenski standard je istoveten z: **EN ISO 9017:2013**

ICS:

25.160.40	Varjeni spoji in vari	Welded joints

SIST EN ISO 9017:2013 **en,fr,de**

EUROPEAN STANDARD

NORME EUROPÉENNE

EUROPÄISCHE NORM

EN ISO 9017

August 2013

ICS 25.160.40

Supersedes EN 1320:1996

English Version

Destructive tests on welds in metallic materials - Fracture test (ISO 9017:2001)

Essais destructifs des soudures sur matériaux métalliques - Essai de texture (ISO 9017:2001)

Zerstörende Prüfung von Schweißverbindungen an metallischen Werkstoffen - Bruchprüfung (ISO 9017:2001)

This European Standard was approved by CEN on 8 August 2013.

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COMITÉ EUROPÉEN DE NORMALISATION
EUROPÄISCHES KOMITEE FÜR NORMUNG

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Foreword

The text of ISO 9017:2001 has been prepared by Technical Committee ISO/TC 44 “Welding and allied processes” of the International Organization for Standardization (ISO) and has been taken over as EN ISO 9017:2013 by 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of an identical text or by endorsement, at the latest by February 2014, and conflicting national standards shall be withdrawn at the latest by February 2014.

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Endorsement notice

The text of ISO 9017:2001 has been approved by CEN as EN ISO 9017:2013 without any modification.

INTERNATIONAL STANDARD

ISO 9017

First edition
2001-04-01

Destructive tests on welds in metallic materials — Fracture test

Essais destructifs des soudures sur matériaux métalliques — Essai de texture

Reference number
ISO 9017:2001(E)

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Printed in Switzerland

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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 9017 was prepared by Technical Committee ISO/TC 44, *Welding and allied processes*, Subcommittee SC 5, *Testing and inspection of welds*.

Annex A of this International Standard is for information only.

Destructive tests on welds in metallic materials — Fracture test

1 Scope

This International standard specifies the sizes of test specimen and the procedures for carrying out fracture tests in order to obtain information about types, sizes and distribution of internal imperfections such as porosities, cracks, lack of fusion, lack of penetration and solid inclusions on the fracture surface.

This International Standard applies to metallic materials in all forms of product with joints made by any fusion welding process with a thickness greater or equal to 2 mm.

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.

ISO 5817:—[1], *Welding — Fusion-welded joints in steel, nickel, titanium and their alloys (beam welding excluded) — Quality levels for imperfections.*

ISO 10042, *Arc-welded joints in aluminium and its weldable alloys — Guidance on quality levels for imperfections.*

EN 970, *Non-destructive examination of fusion welds — Visual examination.*

3 Terms and definitions

For the purposes of this International Standard, the following terms and definitions apply.

3.1
examination length
L_f
length of the test specimen measured along the weld axis between any side notches

See Figure 6.

3.2
total examination length
ΣL_f
sum of the lengths of all the test specimens comprising the test piece, measured along the weld axis, of the fracture faces between the side notches of the test specimens

See Figure 6.

1) To be published. (Revision of ISO 5817:1992)