



SLOVENSKI STANDARD
SIST EN ISO 15626:2013

01-december-2013

Nadomešča:
SIST EN 15617:2009

Neporušitveno preskušanje zvarnih spojev - Metoda ultrazvočne difrakcije za odkrivanje in ugotavljanje velikosti nepopolnosti (TOFD) - Stopnje sprejemljivosti (ISO 15626:2011)

Non-destructive testing of welds - Time-of-flight diffraction technique (TOFD) - Acceptance levels (ISO 15626:2011)

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Zerstörungsfreie Prüfung von Schweißverbindungen - Beugungslaufzeittechnik (TOFD) - Zulässigkeitsgrenzen (ISO 15626:2011)

SIST EN ISO 15626:2013
Contrôle non destructif des assemblages soudés - Technique de diffraction des temps de vol (TOFD) - Niveaux d'acceptation (ISO 15626:2011)

Ta slovenski standard je istoveten z: EN ISO 15626:2013

ICS:

25.160.40 Varjeni spoji in vari Welded joints

SIST EN ISO 15626:2013 **en,fr,de**

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EUROPEAN STANDARD
NORME EUROPÉENNE
EUROPÄISCHE NORM

EN ISO 15626

August 2013

ICS 25.160.40

Supersedes EN 15617:2009

English Version

Non-destructive testing of welds - Time-of-flight diffraction technique (TOFD) - Acceptance levels (ISO 15626:2011)

Contrôle non destructif des assemblages soudés -
Technique de diffraction des temps de vol (TOFD) -
Niveaux d'acceptation (ISO 15626:2011)

Zerstörungsfreie Prüfung von Schweißverbindungen -
Beugungslaufzeittechnik (TOFD) - Zulässigkeitsgrenzen
(ISO 15626:2011)

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

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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-CENELEC 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

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Foreword

The text of ISO 15626:2011 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 15626:2013 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.

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.

This document supersedes EN 15617:2009.

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

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Endorsement notice

The text of ISO 15626:2011 has been approved by CEN as EN ISO 15626:2013 without any modification.

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INTERNATIONAL STANDARD

ISO
15626

First edition
2011-02-01

Non-destructive testing of welds — Time-of-flight diffraction technique (TOFD) — Acceptance levels

Contrôle non destructif des assemblages soudés — Technique de diffraction des temps de vol (TOFD) — Niveaux d'acceptation

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Tel. + 41 22 749 01 11
Fax + 41 22 749 09 47
E-mail copyright@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.

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 15626 was prepared by CEN (as EN 15617) and was adopted, under a special “fast-track procedure”, by Technical Committee ISO/TC 44, *Welding and allied processes*, Subcommittee SC 5, *Testing and inspection of welds*, in parallel with its approval by the ISO member bodies.

Request for official interpretations of any aspect of ISO 15626 should be directed to the Secretariat of ISO/TC 44/SC 5 via your national standards body. A complete listing of these bodies can be found at www.iso.org.

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Non-destructive testing of welds — Time-of-flight diffraction technique (TOFD) — Acceptance levels

1 Scope

This International Standard specifies acceptance levels for the time-of-flight diffraction technique (TOFD) of full penetration welds in ferritic steels from 6 mm up to 300 mm thickness which correspond to the quality levels of ISO 5817.

These acceptance levels are applicable to indications classified in accordance with ISO 10863.

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 5817, *Welding — Fusion-welded joints in steel, nickel, titanium and their alloys (beam welding excluded) — Quality levels for imperfections (ISO 5817:2003, corrected version:2005, including Technical Corrigendum 1:2006)*

ISO 10863, *Non-destructive testing of welds — Ultrasonic testing — Use of time-of-flight diffraction technique (TOFD)*¹⁾

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3 Symbols, terms and definitions

3.1 Symbols

- h height of an indication (see Figures 1, 2 and 3)
- l length of an indication (see Figures 1, 2 and 3)
- t nominal wall thickness in accordance with construction drawing or dimension table (see Figures 1, 2 and 3)

3.2 Terms and definitions

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

3.2.1

embedded discontinuity

discontinuity within the volume of the material, separated from the surfaces

3.2.2

surface-breaking discontinuity

discontinuity connected to the near (contact) surface or far (reflecting) surface

1) To be published.