



# SLOVENSKI STANDARD SIST EN ISO 17635:2010

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Nadomešča:

SIST EN 12062:1998

SIST EN 12062:1998/A1:2003

SIST EN 12062:1998/A2:2004

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**Neporušitveno preskušanje zvarov - Splošna pravila za kovinske materiale (ISO 17635:2010)**

Non-destructive testing of welds - General rules for metallic materials (ISO 17635:2010)

iTeh STANDARD PREVIEW

Zerstörungsfreie Prüfung von Schweißverbindungen - Allgemeine Regeln für metallische Werkstoffe (ISO 17635:2010)

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Contrôle non destructif des assemblages soudés - Règles générales pour les matériaux métalliques (ISO 17635:2010)

**Ta slovenski standard je istoveten z: EN ISO 17635:2010**

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**ICS:**

25.160.40      Varjeni spoji in vari      Welded joints

**SIST EN ISO 17635:2010**

**en,fr,de**

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EUROPEAN STANDARD

EN ISO 17635

NORME EUROPÉENNE

EUROPÄISCHE NORM

March 2010

ICS 25.160.40

Supersedes EN 12062:1997

English Version

## Non-destructive testing of welds - General rules for metallic materials (ISO 17635:2010)

Contrôle non destructif des assemblages soudés - Règles générales pour les matériaux métalliques (ISO 17635:2010)

Zerstörungsfreie Prüfung von Schweißverbindungen - Allgemeine Regeln für metallische Werkstoffe (ISO 17635:2010)

This European Standard was approved by CEN on 6 February 2010.

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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 Management Centre has the same status as the official versions.

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## Foreword

This document (EN ISO 17635:2010) has been prepared by Technical Committee CEN/TC 121 "Welding", the secretariat of which is held by DIN, in collaboration with Technical Committee ISO/TC 44 "Welding and allied processes".

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of an identical text or by endorsement, at the latest by September 2010, and conflicting national standards shall be withdrawn at the latest by September 2010.

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 12062:1997.

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, France, Germany, Greece, Hungary, Iceland, Ireland, Italy, Latvia, Lithuania, Luxembourg, Malta, Netherlands, Norway, Poland, Portugal, Romania, Slovakia, Slovenia, Spain, Sweden, Switzerland and the United Kingdom.

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# INTERNATIONAL STANDARD

**ISO**  
**17635**

Second edition  
2010-03-01

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## Non-destructive testing of welds — General rules for metallic materials

*Contrôle non destructif des assemblages soudés — Règles générales  
pour les matériaux métalliques*

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ISO 17635:2010(E)

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## ISO 17635:2010(E)

## 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 17635 was prepared by the European Committee for Standardization (CEN) Technical Committee TC 121, *Welding*, in collaboration with Technical Committee ISO/TC 44, *Welding and allied processes*, Subcommittee SC 5, *Testing and inspection of welds*, in accordance with the Agreement on technical cooperation between ISO and CEN (Vienna Agreement).

This second edition cancels and replaces the first edition (ISO 17635:2003), which has been technically revised.

SIST EN ISO 17635:2010

Requests for official interpretations of any aspect of this International Standard 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](http://www.iso.org).

# Non-destructive testing of welds — General rules for metallic materials

## 1 Scope

This International Standard gives guidelines for the choice of non-destructive testing (NDT) methods for welds and evaluation of the results for quality control purposes, based on quality requirements, material, weld thickness, welding process, and extent of testing.

This International Standard also specifies general rules and standards to be applied to the different types of testing, for either the methodology or the acceptance level for metallic materials.

Acceptance levels cannot be a direct interpretation of the quality levels defined in ISO 5817 or ISO 10042. They are linked to the overall quality of the produced batch of welds.

Requirements for acceptance levels for NDT comply with quality levels stated in ISO 5817 or ISO 10042 (moderate, intermediate, stringent) only on a general basis and not in detail for each indication.

Annex A gives correlations between quality, NDT and acceptance level standards.

Annex B gives an overview of the standards linked to quality levels, acceptance levels, and NDT methods.

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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 3452-1, *Non-destructive testing — Penetrant testing — Part 1: General principles*

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

ISO 9712, *Non-destructive testing — Qualification and certification of personnel*

ISO 10042, *Welding — Arc-welded joints in aluminium and its alloys — Quality levels for imperfections*

ISO 10675-1, *Non-destructive testing of welds — Acceptance levels for radiographic testing — Part 1: Steel, nickel, titanium and their alloys*

ISO 10675-2, *Non-destructive testing of welds — Acceptance levels for radiographic testing — Part 2: Aluminium and its alloys*

ISO 10863<sup>1</sup>, *Welding — Use of time-of-flight diffraction technique (TOFD) for testing of welds*

ISO 11666, *Non-destructive testing of welds — Ultrasonic testing of welded joints — Acceptance levels*

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1) To be published.