



SLOVENSKI STANDARD

SIST EN ISO 23279:2011

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Nadomešča:

SIST EN 1713:1999

SIST EN 1713:1999/A1:2003

SIST EN 1713:1999/A2:2004

**Neporušitveno preskušanje zvarnih spojev - Ultrazvočno preskušanje -
Karakterizacija indikacij v zvarnih spojih (ISO 23279:2010)**

Non-destructive testing of welds - Ultrasonic testing - Characterization of indications in
welds (ISO 23279:2010)

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Zerstörungsfreie Prüfung von Schweißverbindungen - Ultraschallprüfung -
Charakterisierung von Anzeigen in Schweißnähten (ISO 23279:2010)

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Contrôles non destructifs des assemblages soudés - Contrôle par ultrasons -
Caractérisation des indications de soudures (ISO 23279:2010)

Ta slovenski standard je istoveten z: EN ISO 23279:2010

ICS:

25.160.40 Varjeni spoji in vari Welded joints

SIST EN ISO 23279:2011 en,fr,de

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EUROPEAN STANDARD
NORME EUROPÉENNE
EUROPÄISCHE NORM

EN ISO 23279

March 2010

ICS 25.160.40

Supersedes EN 1713:1998

English Version

Non-destructive testing of welds - Ultrasonic testing - Characterization of indications in welds (ISO 23279:2010)

Contrôle non destructif des assemblages soudés - Contrôle
par ultrasons - Caractérisation des indications dans les
assemblages soudés (ISO 23279:2010)

Zerstörungsfreie Prüfung von Schweißverbindungen -
Ultraschallprüfung - Charakterisierung von Anzeigen in
Schweißnähten (ISO 23279:2010)

This European Standard was approved by CEN on 13 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 23279:2010) 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of an identical text or by endorsement, at the latest by September 2010, and conflicting national standards shall be withdrawn at the latest by September 2010.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 1713:1998.

This document has been prepared under a mandate given to CEN by the European Commission and the European Free Trade Association, and supports essential requirements of EU Directive(s).

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
23279

Second edition
2010-03-01

**Non-destructive testing of welds —
Ultrasonic testing — Characterization of
indications in welds**

*Contrôle non destructif des assemblages soudés — Contrôle par
ultrasons — Caractérisation des indications dans les assemblages
soudés*

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ISO 23279:2010(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 23279 was prepared by the European Committee for Standardization (CEN) Technical Committee TC 121, *Welding*, in collaboration with ISO Technical Committee 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 23279:2007), which has been technically revised.

SIST EN ISO 23279:2011

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.

Non-destructive testing of welds — Ultrasonic testing — Characterization of indications in welds

1 Scope

This International Standard specifies how to characterize embedded indications by classifying them as planar or non-planar.

This procedure is also suitable for indications that break the surface after removal of the weld reinforcement.

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 17640, *Non-destructive testing of welds — Ultrasonic testing — Techniques, testing levels, and assessment*

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3 Principle <https://standards.iteh.ai/catalog/standards/sist/796deddc-5441-4a69-9a44-1becd635edf3/sist-en-iso-23279-2011>

Classification of indications as planar or non-planar is based on several parameters:

- a) welding techniques;
- b) geometrical position of the indication;
- c) maximum echo amplitude;
- d) directional reflectivity;
- e) echostatic pattern (i.e. A-scan);
- f) echodynamic pattern.

The process of classification involves examining each of the parameters against all the others in order to arrive at an accurate conclusion.

For guidance, Figure A.1 gives the classification of internal weld indications suitable for general applications. Figure A.1 should be applied in conjunction with the two first parameters listed above and not taken in isolation.

The classification procedure specified in this International Standard is also suitable for indications that are surface breaking after removal of the weld reinforcement (see Figure 1).