ICS 19.100 SLOVENSKÁ TECHNICKÁ NORMA August 2022

STN	**Nedeštruktívne skúšanie Skúšanie ultrazvukom Technika skúšania plátovaných vrstiev vyrábaných zváraním, valcovaním a výbuchom (ISO 17405: 2022)**	**STN EN ISO 17405** 01 5007

Non-destructive testing - Ultrasonic testing - Technique of testing claddings produced by welding, rolling and explosion (ISO 17405:2022)

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. 07/22

Obsahuje: EN ISO 17405:2022, ISO 17405:2022

Oznámením tejto normy sa ruší
STN EN ISO 17405 (01 5007) z februára 2015

135339

EUROPEAN STANDARD

NORME EUROPÉENNE

EUROPÄISCHE NORM

EN ISO 17405

May 2022

ICS 19.100

Supersedes EN ISO 17405:2014

English Version

Non-destructive testing - Ultrasonic testing - Technique of testing claddings produced by welding, rolling and explosion (ISO 17405:2022)

Essais non destructifs - Contrôle par ultrasons - Technique d'essai des placages produits par soudage, laminage et explosion (ISO 17405:2022)

Zerstörungsfreie Prüfung - Ultraschallprüfung - Techniken zur Prüfung von Plattierungen hergestellt durch Schweißen, Walzen und Sprengen (ISO 17405:2022)

This European Standard was approved by CEN on 8 May 2022.

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EUROPEAN COMMITTEE FOR STANDARDIZATION
COMITÉ EUROPÉEN DE NORMALISATION
EUROPÄISCHES KOMITEE FÜR NORMUNG

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Ref. No. EN ISO 17405:2022 E

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European foreword

This document (EN ISO 17405:2022) has been prepared by Technical Committee ISO/TC 44 "Welding and allied processes" in collaboration with Technical Committee CEN/TC 121 “Welding and allied processes” 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of an identical text or by endorsement, at the latest by November 2022, and conflicting national standards shall be withdrawn at the latest by November 2022.

Attention is drawn to the possibility that some of the elements of this document may be the subject of patent rights. CEN shall not be held responsible for identifying any or all such patent rights.

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Any feedback and questions on this document should be directed to the users’ national standards body/national committee. A complete listing of these bodies can be found on the CEN website.

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Endorsement notice

The text of ISO 17405:2022 has been approved by CEN as EN ISO 17405:2022 without any modification.

INTERNATIONAL STANDARD

ISO 17405

Second edition
2022-04

Non-destructive testing — Ultrasonic testing — Technique of testing claddings produced by welding, rolling and explosion

Essais non destructifs — Contrôle par ultrasons — Technique d'essai des placages produits par soudage, laminage et explosion

Reference number
ISO 17405:2022(E)

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Published 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.

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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For an explanation of the voluntary nature of standards, the meaning of ISO specific terms and expressions related to conformity assessment, as well as information about ISO's adherence to the World Trade Organization (WTO) principles in the Technical Barriers to Trade (TBT), see www.iso.org/iso/foreword.html.

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

This second edition cancels and replaces the first edition (ISO 17405:2014), which has been technically revised. The main changes are as follows:

— the normative references have been updated;

— the terms have been aligned with ISO 5577;

— the term 3.2 test surface and its definition have been deleted;

— Clause 4 on Personnel qualification has been added;

— the requirements in 5.2.4 for the adaption of probes to curved surfaces have been modified;

— editorial corrections have been made.

Any feedback or questions on this document should be directed to the user’s national standards body. A complete listing of these bodies can be found at www.iso.org/members.html. Official interpretations of ISO/TC 44 documents, where they exist, are available from this page: https://committee.iso.org/sites/tc44/home/interpretation.html.

INTERNATIONAL STANDARD **ISO 17405:2022(E)**

Non-destructive testing — Ultrasonic testing — Technique of testing claddings produced by welding, rolling and explosion

1 Scope

This document specifies the techniques for manual ultrasonic testing of claddings on steel applied by welding, rolling and explosion using single-transducer or dual-transducer probes.

The test is intended to cover detection of two-dimensional or three-dimensional discontinuities in the cladding and in the region of the interface.

This document does not give acceptance criteria nor define the extent of testing.

2 Normative references

The following documents are referred to in the text in such a way that some or all of their content constitutes requirements 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 5577, *Non-destructive testing — Ultrasonic testing — Vocabulary*

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

ISO 22232-1, *Non-destructive testing — Characterization and verification of ultrasonic test equipment — Part 1: Instruments*

ISO 22232-2, *Non-destructive testing — Characterization and verification of ultrasonic test equipment — Part 2: Probes*

ISO 22232-3, *Non-destructive testing — Characterization and verification of ultrasonic test equipment — Part 3: Combined equipment*