ICS 25.160.30 SLOVENSKÁ TECHNICKÁ NORMA Február 2026

STN	**Zváranie Kalibrovanie, overovanie a osvedčenie zariadení používaných na zváranie vrátane pridružených činností (ISO 17662: 2025)**	**STN EN ISO 17662 05 2009**

Welding - Calibration, verification and validation of equipment used for welding, including ancillary activities (ISO 17662:2025)

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. 01/26

Obsahuje: EN ISO 17662:2025, ISO 17662:2025

Oznámením tejto normy sa ruší
STN EN ISO 17662 (05 2009) zo septembra 2016

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EUROPEAN STANDARD
NORME EUROPÉENNE
EUROPÄISCHE NORM

EN ISO 17662

September 2025

ICS 25.160.30 Supersedes EN ISO 17662:2016

English Version

Welding - Calibration, verification and validation of equipment used for welding, including ancillary activities (ISO 17662:2025)

Soudage - Étalonnage, vérification et validation du matériel utilisé pour le soudage, y compris pour les procédés connexes (ISO 17662:2025)

Schweißen - Kalibrierung, Verifizierung und Validierung von Einrichtungen einschließlich ergänzender Tätigkeiten, die beim Schweißen verwendet werden (ISO 17662:2025)

This European Standard was approved by CEN on 12 September 2025.

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

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Ref. No. EN ISO 17662:2025 E

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European foreword

This document (EN ISO 17662:2025) 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 AFNOR.

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of an identical text or by endorsement, at the latest by March 2026, and conflicting national standards shall be withdrawn at the latest by March 2026.

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.

This document supersedes EN ISO 17662:2016.

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.

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, Republic of North Macedonia, Romania, Serbia, Slovakia, Slovenia, Spain, Sweden, Switzerland, Türkiye and the United Kingdom.

Endorsement notice

The text of ISO 17662:2025 has been approved by CEN as EN ISO 17662:2025 without any modification.

International Standard

ISO 17662

Welding — Calibration, verification and validation of equipment used for welding, including ancillary activities

Soudage — Étalonnage, vérification et validation du matériel utilisé pour le soudage, y compris pour les procédés connexes

Third edition
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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 document 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).

ISO draws attention to the possibility that the implementation of this document may involve the use of (a) patent(s). ISO takes no position concerning the evidence, validity or applicability of any claimed patent rights in respect thereof. As of the date of publication of this document, ISO had not received notice of (a) patent(s) which may be required to implement this document. However, implementers are cautioned that this may not represent the latest information, which may be obtained from the patent database available at www.iso.org/patents. ISO shall not be held responsible for identifying any or all such patent rights.

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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 10, *Quality management in the field of welding,* 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 third edition cancels and replaces the second edition (ISO 17662:2016), which has been technically revised.

The main changes are as follows:

— Clause 13 (Stud welding) technically revised;

— Clause 14 (Brazing) soldering added;

— bibliography updated.

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 17662:2025(en)**

Welding — Calibration, verification and validation of equipment used for welding, including ancillary activities

1 Scope

This document specifies requirements for calibration, verification and validation of equipment used for:

— control of process variables during fabrication,

— control of the properties of equipment used for welding or welding allied processes,

where the resulting output cannot be readily or economically documented by subsequent monitoring, inspection and testing. This involves process variables influencing the fitness-for-purpose and in particular the safety of the fabricated product.

NOTE This document is based on the lists of process variables stated in International Standards for specification of welding procedures, in particular, but not exclusively in the ISO 15609 series. Future revisions of these International Standards can result in addition or deletion of parameters considered necessary to specify.

Some guidance is, in addition, given in Annex B for requirements for calibration, verification and validation as part of acceptance testing of equipment used for welding or allied processes.

This document does not specify requirements to calibrate, verify and validate as part of inspection, testing, non-destructive testing or measuring of final welded products performed in order to verify product conformance.

This document applies only to calibration, verification and validation of equipment for use in production or on site.

This document does not apply to the manufacture and installation of equipment for welding. Requirements for new equipment are formulated in directives and product codes (standards), as necessary.

Annex C provides information when other parties are involved in calibration, verification and validation activities.

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 669, *Resistance welding — Resistance welding equipment — Mechanical and electrical requirements*

ISO 5171, *Gas welding equipment — Pressure gauges used in welding, cutting and allied processes*

ISO 5826, *Resistance welding equipment — Transformers — General specifications applicable to all transformers*