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Specification and qualification of welding procedures for metallic materials - Qualification by adoption of a standard welding procedure (ISO 15612:2018)

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. 12/18

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EUROPEAN STANDARD

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Supersedes EN ISO 15612:2004

English Version

## Specification and qualification of welding procedures for metallic materials - Qualification by adoption of a standard welding procedure (ISO 15612:2018)

Descriptif et qualification d'un mode opératoire de soudage pour les matériaux métalliques - Qualification par référence à un mode opératoire de soudage standard (ISO 15612:2018)

Anforderung und Qualifizierung von Schweißverfahren für metallische Werkstoffe - Qualifizierung durch Einsatz eines Standardschweißverfahrens (ISO 15612:2018)

This European Standard was approved by CEN on 24 June 2018.

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**CEN-CENELEC Management Centre: Rue de la Science 23, B-1040 Brussels**

**EN ISO 15612:2018 (E)**

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## **European foreword**

This document (EN ISO 15612:2018) 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of an identical text or by endorsement, at the latest by January 2019, and conflicting national standards shall be withdrawn at the latest by January 2019.

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 15612:2004.

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, Serbia, Slovakia, Slovenia, Spain, Sweden, Switzerland, Turkey and the United Kingdom.

## **Endorsement notice**

The text of ISO 15612:2018 has been approved by CEN as EN ISO 15612:2018 without any modification.

# INTERNATIONAL STANDARD

**ISO**  
**15612**

Second edition  
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## **Specification and qualification of welding procedures for metallic materials — Qualification by adoption of a standard welding procedure specification**

*Descriptif et qualification d'un mode opératoire de soudage pour  
les matériaux métalliques — Qualification par référence à un mode  
opératoire de soudage standard*



Reference number  
ISO 15612:2018(E)

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## ISO 15612:2018(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.

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](http://www.iso.org/directives)).

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. Details of any patent rights identified during the development of the document will be in the Introduction and/or on the ISO list of patent declarations received (see [www.iso.org/patents](http://www.iso.org/patents)).

Any trade name used in this document is information given for the convenience of users and does not constitute an endorsement.

For an explanation on 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 the following URL: [www.iso.org/iso/foreword.html](http://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*.

This second edition cancels and replaces the first edition (ISO 15612:2004), which has been technically revised. The main changes compared to the previous edition are as follows:

- the Introduction has been revised;
- clarification on how and when an SWPS may be used has been added throughout the document;
- limits on the use of SWPSs ([Clause 4](#)) have been updated.

Requests for official interpretations of any aspect of this document should be directed to the Secretariat of ISO/TC 44/SC 10 via your national standards body. A complete listing of these bodies can be found at [www.iso.org](http://www.iso.org).



## **Introduction**

This document comprises part of a matrix of standards for the specification and qualification of welding procedures as given in ISO 15607. It permits a manufacturer to adopt a welding procedure specification qualified and published as a standard welding procedure specification (SWPS) by a different organization.

# Specification and qualification of welding procedures for metallic materials — Qualification by adoption of a standard welding procedure specification

## 1 Scope

This document:

- specifies how a user can follow a standard welding procedure specification (SWPS) based on welding procedure qualification tests performed by a different organization;
- specifies the range for the use of SWPSs in accordance with ISO 15607;
- specifies the requirements for qualification of welding procedures to be issued as SWPSs; and
- specifies the requirements for organizations adopting SWPSs.

The use of this document can be restricted by an application standard or a specification.

This document is applicable to welding of steels and aluminium and its alloys (see [4.1](#)).

All new standard welding procedure qualifications are to be carried out in accordance with this document from the date of its issue. However, this document does not invalidate previous standard welding procedure qualifications made to former standards, specifications or previous editions of this document.

## 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 9606-1, *Qualification testing of welders — Fusion welding — Part 1: Steels*

ISO 9606-2, *Qualification test of welders — Fusion welding — Part 2: Aluminium and aluminium alloys*

ISO 14731, *Welding coordination — Tasks and responsibilities*

ISO 14732, *Welding personnel — Qualification testing of welding operators and weld setters for mechanized and automatic welding of metallic materials*

ISO 15607, *Specification and qualification of welding procedures for metallic materials — General rules*

ISO 15609 (all parts), *Specification and qualification of welding procedures for metallic materials — Welding procedure specification*

ISO 15614 (all parts), *Specification and qualification of welding procedures for metallic materials — Welding procedure test*

ISO/TR 18491, *Welding and allied processes — Guidelines for measurement of welding energies*

**koniec náhľadu – text ďalej pokračuje v platenej verzii STN**