



# SLOVENSKI STANDARD SIST EN ISO 15607:2020

01-marec-2020

Nadomešča:  
SIST EN ISO 15607:2004

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## Popis in kvalifikacija varilnih postopkov za kovinske materiale - Splošna pravila (ISO 15607:2019)

Specification and qualification of welding procedures for metallic materials - General rules (ISO 15607:2019)

Anforderung und Qualifizierung von Schweißverfahren für metallische Werkstoffe - Allgemeine Regeln (ISO 15607:2019)

Descriptif et qualification d'un mode opératoire de soudage pour les matériaux métalliques - Règles générales (ISO 15607:2019)

Ta slovenski standard je istoveten z: EN ISO 15607:2019

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### ICS:

25.160.10 Varilni postopki in varjenje Welding processes

SIST EN ISO 15607:2020

en,fr,de

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EUROPEAN STANDARD

EN ISO 15607

NORME EUROPÉENNE

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Supersedes EN ISO 15607:2003

English Version

## Specification and qualification of welding procedures for metallic materials - General rules (ISO 15607:2019)

Descriptif et qualification d'un mode opératoire de soudage pour les matériaux métalliques - Règles générales (ISO 15607:2019)

Anforderung und Qualifizierung von Schweißverfahren für metallische Werkstoffe - Allgemeine Regeln (ISO 15607:2019)

This European Standard was approved by CEN on 4 October 2019.

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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-CENELEC Management Centre has the same status as the official versions.

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

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## European foreword

This document (EN ISO 15607:2019) 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of an identical text or by endorsement, at the latest by April 2020, and conflicting national standards shall be withdrawn at the latest by April 2020.

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 15607:2003.

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, Turkey and the United Kingdom.

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INTERNATIONAL  
STANDARD

ISO  
15607

Second edition  
2019-10

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

*Descriptif et qualification d'un mode opératoire de soudage pour les  
matériaux métalliques — Règles générales*

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CH-1214 Vernier, Geneva  
Phone: +41 22 749 01 11  
Fax: +41 22 749 09 47  
Email: [copyright@iso.org](mailto:copyright@iso.org)  
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## ISO 15607:2019(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 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](http://www.iso.org/iso/foreword.html).

This document was prepared by ISO 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 15607:2003), which has been technically revised. It also incorporates the Technical Corrigendum ISO 15607:2003/Cor.1:2005.

The main changes compared to the previous edition are as follows:

- ISO 3834 is no longer referenced;
- titles of referenced documents have been corrected and some references have been moved to the Bibliography;
- references to International Standards for laser-arc hybrid welding, friction stir welding and production welding of steel castings have been added.

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](http://www.iso.org/members.html). Official interpretations of TC 44 documents, where they exist, are available from this page: <https://committee.iso.org/sites/tc44/home/interpretation.html>.

## Introduction

Welding procedure specifications (WPSs) are needed in order to provide a well-defined basis for planning of the welding operations and for quality control during welding. Welding is considered a special process in the terminology of standards for quality systems. Standards for quality systems usually require that special processes be carried out in accordance with written procedure specifications.

Preparation of a welding procedure specification provides the necessary basis for, but does not in itself ensure that the welds fulfil the requirements. Some deviations, notably imperfections and distortions, can be evaluated by non-destructive methods on the finished product.

However, metallurgical deviations constitute a special problem because non-destructive evaluation of the mechanical properties is impossible at the present level of non-destructive technology. This has resulted in the establishment of a set of rules for qualification of the welding procedure prior to the release of the specification to actual production. This document defines these rules.

Qualification of a preliminary welding procedure specification (pWPS) by more than one method is not recommended.

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