

METALLIDE KEEVITUSPROTSEDUURIDE
SPETSIFITSEERIMINE JA KVALIFITSEERIMINE.
KVALIFITSEERIMINE STANDARDSE
KEEVITUSPROTSEDUURI SPETSIFIKAADI
ÜLEVÕTMISEGA

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

EESTI STANDARDI EESSÕNA

NATIONAL FOREWORD

See Eesti standard EVS-EN ISO 15612:2018 sisaldab Euroopa standardi EN ISO 15612:2018 ingliskeelset teksti.	This Estonian standard EVS-EN ISO 15612:2018 consists of the English text of the European standard EN ISO 15612:2018.
Standard on jõustunud sellekohase teate avaldamisega EVS Teatajas.	This standard has been endorsed with a notification published in the official bulletin of the Estonian Centre for Standardisation.
Euroopa standardimisorganisatsioonid on teinud Euroopa standardi rahvuslikele liikmetele kättesaadavaks 18.07.2018.	Date of Availability of the European standard is 18.07.2018.
Standard on kättesaadav Eesti Standardikeskusest.	The standard is available from the Estonian Centre for Standardisation.

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ICS 25.160.10

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English Version

Specification and qualification of welding procedures for
metallic materials - Qualification by adoption of a standard
welding procedure specification (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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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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This European Standard was corrected and reissued by the CEN-CENELEC Management Centre on 19 December 2018.



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

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

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.

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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 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.

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.

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*

3 Terms and definitions

For the purposes of this document, the terms and definitions given in ISO 15607, ISO/TR 18491 and the following apply.