SLOVENSKI STANDARD
SIST EN ISO 15614-5:2024

01-december-2024

Nadomešča:

SIST EN ISO 15614-5:2004

Popis in kvalifikacija varilnih postopkov za kovinske materiale - Preskus varilnega postopka - 5. del: Obločno varjenje titana, cirkonija in njunih zlitin (ISO 15614-5:2024)

Specification and qualification of welding procedures for metallic materials - Welding procedure test - Part 5: Arc welding of titanium, zirconium and their alloys (ISO 15614-5:2024)

Anforderung und Qualifizierung von Schweißverfahren für metallische Werkstoffe - Schweißverfahrensprüfung - Teil 5: Lichtbogenschweißen von Titan, Zirkonium und ihren Legierungen (ISO 15614-5:2024)

Descriptif et qualification d'un mode opératoire de soudage pour les matériaux métalliques - Épreuve de qualification d'un mode opératoire de soudage - Partie 5: Soudage à l'arc sur titane, zirconium et leurs alliages (ISO 15614-5:2024)

Ta slovenski standard je istoveten z: **EN ISO 15614-5:2024**

ICS:

25.160.10	Varilni postopki in varjenje	Welding processes
77.120.50	Titan in titanove zlitine	Titanium and titanium alloys

SIST EN ISO 15614-5:2024 **en,fr,de**

EUROPEAN STANDARD

NORME EUROPÉENNE

EUROPÄISCHE NORM

EN ISO 15614-5

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ICS 25.160.10

Supersedes EN ISO 15614-5:2004

English Version

Specification and qualification of welding procedures for metallic materials - Welding procedure test - Part 5: Arc welding of titanium, zirconium and their alloys (ISO 15614-5:2024)

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This European Standard was approved by CEN on 6 February 2024.

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

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

Ref. No. EN ISO 15614-5:2024 E

Contents

Page

European foreword

This document (EN ISO 15614-5:2024) 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 2025, and conflicting national standards shall be withdrawn at the latest by March 2025.

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 15614-5:2004.

This document has been prepared under a standardization request addressed to CEN by the European Commission. The Standing Committee of the EFTA States subsequently approves these requests for its Member States.

For the relationship with EU Legislation, see informative Annex ZA, which is an integral part of this document.

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 15614-5:2024 has been approved by CEN as EN ISO 15614-5:2024 without any modification.

Annex ZA
(informative)

Relationship between this European Standard and the Essential Requirements of EU Directive 2014/68/EU (PED) aimed to be covered

This European Standard has been prepared under a Commission's standardization request M/601 to provide one voluntary means of conforming to Essential Requirements of the New Approach Pressure Equipment Directive 2014/68/EU.

Once this standard is cited in the Official Journal of the European Union under that Directive, compliance with the normative clauses of this standard given in Table ZA.1 and application of the edition of the normatively referenced standards as given in Table ZA.2 confers, within the limits of the scope of this standard, a presumption of conformity with the corresponding Essential Requirements of that Directive and associated EFTA regulations.

Table ZA.1 — Correspondence between this European Standard and Annex I of the Directive 2014/68/EU (PED)

Essential Requirements of Directive 2014/68/EU (PED)	Clauses of this EN	Remarks/Notes
3.1.2, paragraphs 3, 4 and 5	5, 6, 7, 8 (except 8.4.1, paragraph 5), 9	Permanent joining. For pressure resistant components of pressure equipment in the categories II, III and IV the examiner/examining body is a competent third party.

Table ZA.2 — Applicable Standards to confer presumption of conformity as described in this Annex ZA

Column 1 Reference in Clause 2	Column 2 International Standard Edition	Column 3 Title	Column 4 Corresponding European Standard Edition
ISO 3452-1	ISO 3452-1:2021	*Non-destructive testing — Penetrant testing — Part 1: General principles*	EN ISO 3452-1:2021
ISO 4136	ISO 4136:2022	*Destructive tests on welds in metallic materials — Transverse tensile test*	EN ISO 4136:2022
ISO 5173	ISO 5173:2023	*Destructive tests on welds in metallic materials — Bend tests*	EN ISO 5173:2023
ISO 5817	ISO 5817:2023	*Welding — Fusion-welded joints in steel, nickel, titanium and their alloys (beam welding excluded) — Quality levels for*	EN ISO 5817:2023

Column 1 Reference in Clause 2	Column 2 International Standard Edition	Column 3 Title	Column 4 Corresponding European Standard Edition
		imperfections	
ISO 6947	ISO 6947:2019	*Welding and allied processes — Welding positions*	EN ISO 6947:2019
ISO 9606-5	ISO 9606-5:2000	*Approval testing of welders — Fusion welding — Part 5: Titanium and titanium alloys, zirconium and zirconium alloys*	EN ISO 9606-5:2000
ISO 14175	ISO 14175:2008	*Welding consumables - Gases and gas mixtures for fusion welding and allied processes*	EN ISO 14175:2008
ISO 14732	ISO 14732:2013	*Welding personnel - Qualification testing of welding operators and weld setters for mechanized and automatic welding of metallic materials*	EN ISO 14732:2013
ISO 15607	ISO 15607:2019	*Specification and qualification of welding procedures for metallic materials - General rules*	EN ISO 15607:2019
ISO 15609-1	ISO 15609-1:2019	*Specification and qualification of welding procedures for metallic materials — Welding procedure specification — Part 1: Arc welding*	EN ISO 15609-1:2019
ISO 15613	ISO 15613:2004	*Specification and qualification of welding procedures for metallic materials — Qualification based on pre-production welding test*	EN ISO 15613:2004
ISO 17636-1	ISO 17636-1:2022	*Non-destructive testing of welds — Radiographic testing — Part 1: X- and gamma-ray techniques with film*	EN ISO 17636-1:2022
ISO 17636-2	ISO 17636-2:2022 Corrected version 2023–02	*Non-destructive testing of welds — Radiographic testing — Part 2: X- and*	EN ISO 17636-2:2022

Column 1 Reference in Clause 2	Column 2 International Standard Edition	Column 3 Title	Column 4 Corresponding European Standard Edition
		gamma-ray techniques with digital detectors	
ISO 17637	ISO 17637:2016	*Non-destructive testing of welds — Visual testing of fusion-welded joints*	EN ISO 17637:2016
ISO 17639	ISO 17639:2022	*Destructive tests on welds in metallic materials — Macroscopic and microscopic examination of welds*	EN ISO 17639:2022
ISO 25901-2	ISO 25901-2:2022	*Welding and allied processes — Vocabulary — Part 2: Health and safety*	EN ISO 25901-2:2023

The documents listed in the Column 1 of Table ZA.2, in whole or in part, are normatively referenced in this document, i.e. are indispensable for its application. The achievement of the presumption of conformity is subject to the application of the edition of Standards as listed in Column 4 or, if no European Standard Edition exists, the International Standard Edition given in Column 2 of Table ZA.2.

WARNING 1 Presumption of conformity stays valid only as long as a reference to this European Standard is maintained in the list published in the Official Journal of the European Union. Users of this standard should consult frequently the latest list published in the Official Journal of the European Union.

WARNING 2 Other Union legislation may be applicable to the products falling within the scope of this standard.

International Standard

ISO 15614-5

Second edition
2024-02

Specification and qualification of welding procedures for metallic materials — Welding procedure test —

Part 5: Arc welding of titanium, zirconium and their alloys

Descriptif et qualification d'un mode opératoire de soudage pour les matériaux métalliques — Épreuve de qualification d'un mode opératoire de soudage —

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ISO copyright office
CP 401 • Ch. de Blandonnet 8
CH-1214 Vernier, Geneva
Phone: +41 22 749 01 11
Email: copyright@iso.org
Website: www.iso.org

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Contents

Page