

SLOVENSKI STANDARD SIST EN ISO 636:2025

01-marec-2025

Nadomešča:

SIST EN ISO 636:2018

Dodajni in pomožni materiali za varjenje - Palice, žice in čisti vari pri varjenju TIG nelegiranih in drobnozrnatih jekel - Razvrstitev (ISO 636:2024)

Welding consumables - Rods, wires and deposits for tungsten inert gas welding of non-alloy and fine-grain steels - Classification (ISO 636:2024)

Schweißzusätze - Stäbe, Drähte und Schweißgut zum Wolfram-Inertgasschweißen von unlegierten Stählen und Feinkornstählen - Einteilung (ISO 636:2024)

Produits consommables pour le soudage - Baguettes, fils et dépôts pour soudage TIG des aciers non alliés et des aciers à grains fins - Classification (ISO 636:2024)

Ta slovenski standard je istoveten z: EN ISO 636:2024

ICS:

25.160.20 Potrošni material pri varjenju Welding consumables

SIST EN ISO 636:2025 en,fr,de

iTeh Standards (https://standards.iteh.ai) Document Preview

SIST EN ISO 636:2025

EUROPEAN STANDARD NORME EUROPÉENNE EUROPÄISCHE NORM

EN ISO 636

October 2024

ICS 25.160.20

Supersedes EN ISO 636:2017

English Version

Welding consumables - Rods, wires and deposits for tungsten inert gas welding of non-alloy and fine-grain steels - Classification (ISO 636:2024)

Produits consommables pour le soudage - Baguettes, fils et dépôts pour soudage TIG des aciers non alliés et des aciers à grains fins - Classification (ISO 636:2024)

Schweißzusätze - Stäbe, Drähte und Schweißgut zum Wolfram-Inertgasschweißen von unlegierten Stählen und Feinkornstählen - Einteilung (ISO 636:2024)

This European Standard was approved by CEN on 14 June 2024.

CEN members are bound to comply with the CEN/CENELEC Internal Regulations which stipulate the conditions for giving this European Standard the status of a national standard without any alteration. Up-to-date lists and bibliographical references concerning such national standards may be obtained on application to the CEN-CENELEC Management Centre or to any CEN member.

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.

CEN members are the national standards bodies of 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 United Kingdom.

ottps://standards.iteh.ai/catalog/standards/sist/c03bf57c-7a08-419a-91e8-6bfc7ce810fa/sist-en-iso-636-2025



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

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

EN ISO 636:2024 (E)

Contents	Pag	Page	
_		_	
Euronean foreword		3	

iTeh Standards (https://standards.iteh.ai) Document Preview

SIST EN ISO 636:2025

European foreword

This document (EN ISO 636:2024) 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 April 2025, and conflicting national standards shall be withdrawn at the latest by April 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 636:2017.

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 636:2024 has been approved by CEN as EN ISO 636:2024 without any modification.

iTeh Standards (https://standards.iteh.ai) Document Preview

SIST EN ISO 636:2025



International Standard

ISO 636

Welding consumables — Rods, wires and deposits for tungsten inert gas welding of non-alloy and fine-grain steels — Classification

Produits consommables pour le soudage — Baguettes, fils et dépôts pour soudage TIG des aciers non alliés et des aciers à grains fins — Classification

Sixth edition 2024-09

Document Preview

SIST EN ISO 636:202:

ISO 636:2024(en)

iTeh Standards (https://standards.iteh.ai) Document Preview

SIST EN ISO 636:2025

https://standards.iteh.ai/catalog/standards/sist/c03bf57c-7a08-419a-91e8-6bfc7ce810fa/sist-en-iso-636-2025



COPYRIGHT PROTECTED DOCUMENT

© ISO 2024

All rights reserved. Unless otherwise specified, or required in the context of its implementation, no part of this publication may be reproduced or utilized otherwise in any form or by any means, electronic or mechanical, including photocopying, or posting on the internet or an intranet, without prior written permission. Permission can be requested from either ISO at the address below or ISO's member body in the country of the requester.

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

Published in Switzerland

ISO 636:2024(en)

Con	ntents	Page
Fore	word	iv
Intro	oduction	vi
1	Scope	1
2	Normative references	
3	Terms and definitions	
4	Classification	
4	4.1 General	
	4.2 Classification systems	
5	Symbols and requirements	2
	5.1 Symbol for the product/process	2
	5.2 Symbol for strength and elongation of all-weld metal	2
	5.3 Symbol for impact properties of all-weld metal	3
	5.3.1 System A - Classification by yield strength and 47 J impact energy	3
	5.3.2 System B - Classification by tensile strength and 27 J impact energy	
	5.4 Symbol for the chemical composition of rods or wires	
6	Mechanical tests	
	6.1 Mechanical tests and conditions	
	6.2 Preheating and interpass temperatures6.3 Welding conditions and pass sequence	8
	6.3 Welding conditions and pass sequence	
_	lien Standards	
7	Chemical analysis	
8	Rounding procedure 11 ps://standards.itch.ai	
9	Retesting	10
10	Technical delivery conditionsPreview	10
11	Designation examples	
	11.1 General <u>SIST EN ISO 636:2025</u>	
	Tile Enample I diabonication by field but ongun and it finipact energy by but in insumming	636-2.10
	11.3 Example 2 – Classification by tensile strength and 27 J impact energy – System B	10
	11.4 Example 3 - Classification by yield strength and 47 J impact energy – System A	11
	11.5 Example 4 - Classification by tensile strength and 27 J impact energy – System B	
	11.6 Example 4 - Classification by tensile strength and 27 J impact energy – System B	12
Bibli	ography	13

ISO 636:2024(en)

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.

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.

This document was prepared by Technical Committee ISO/TC 44, Welding and allied processes, Subcommittee SC 3, Welding consumables, 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 sixth edition cancels and replaces the fifth edition (ISO 636:2017), which has been technically revised.

The main changes are as follows: and ards/sist/c03bf57c-7a08-419a-91e8-6bfc7ce810fa/sist-en-iso-636-2025

- document has been reformatted in single column format;
- dated references have been updated to current editions;
- text added to 4.1 and Table 8 regarding differences in mechanical properties;
- chemical compositions have been updated for some classifications;
- five new classifications have been added to system B;
- footnote for boron added to Table 4;
- table footnotes have been revised for clarity;
- requirements in <u>Table 5</u> have been aligned with other standards;
- information on preheating and interpass temperatures has been revised in Table 6;
- <u>Clause 7</u> was revised to clarify the effect of chemical elements that do not change during production;
- examples in <u>Clause 11</u> have been revised and examples 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.