
Dodajni in pomožni materiali za varjenje - Oplaščene elektrode za ročno obločno varjenje visokotrdnostnih jekel - Razvrstitev (ISO/DIS 18275:2025)

Welding consumables - Covered electrodes for manual metal arc welding of high-strength steels - Classification (ISO/DIS 18275:2025)

Schweißzusätze - Umhüllte Stabelektroden zum Lichtbogenhandschweißen von hochfesten Stählen (ISO/DIS 18275:2025)

Produits consommables pour le soudage - Électrodes enrobées pour le soudage manuel à l'arc des aciers à haute résistance - Classification (ISO/DIS 18275:2025)

Ta slovenski standard je istoveten z: prEN ISO 18275

[oSIST prEN ISO 18275:2025](#)

<https://standards.iteh.ai/catalog/standards/sist/6a2e0a34-9411-4149-a810-b8ac1f8b662/osist-pr-en-iso-18275-2025>

ICS:

25.160.20 Potrošni material pri varjenju Welding consumables

oSIST prEN ISO 18275:2025

en,fr,de



DRAFT International Standard

ISO/DIS 18275

Welding consumables — Covered electrodes for manual metal arc welding of high-strength steels — Classification

*Produits consommables pour le soudage — Électrodes enrobées
pour le soudage manuel à l'arc des aciers à haute résistance —
Classification*

ICS: 25.160.20

ISO/TC 44/SC 3

Secretariat: **ANSI**

Voting begins on:
2025-09-22

Voting terminates on:
2025-12-15

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

[oSIST prEN ISO 18275:2025](https://standards.iteh.ai/catalog/standards/sist/6a2e0a34-9411-4149-a3f0-b8ae1febc6c2/osist-pren-iso-18275-2025)

<https://standards.iteh.ai/catalog/standards/sist/6a2e0a34-9411-4149-a3f0-b8ae1febc6c2/osist-pren-iso-18275-2025>

This document has not been edited by the ISO Central Secretariat.

ISO/CEN PARALLEL PROCESSING

Reference number
ISO/DIS 18275:2025(en)

THIS DOCUMENT IS A DRAFT CIRCULATED FOR COMMENTS AND APPROVAL. IT IS THEREFORE SUBJECT TO CHANGE AND MAY NOT BE REFERRED TO AS AN INTERNATIONAL STANDARD UNTIL PUBLISHED AS SUCH.

IN ADDITION TO THEIR EVALUATION AS BEING ACCEPTABLE FOR INDUSTRIAL, TECHNOLOGICAL, COMMERCIAL AND USER PURPOSES, DRAFT INTERNATIONAL STANDARDS MAY ON OCCASION HAVE TO BE CONSIDERED IN THE LIGHT OF THEIR POTENTIAL TO BECOME STANDARDS TO WHICH REFERENCE MAY BE MADE IN NATIONAL REGULATIONS.

RECIPIENTS OF THIS DRAFT ARE INVITED TO SUBMIT, WITH THEIR COMMENTS, NOTIFICATION OF ANY RELEVANT PATENT RIGHTS OF WHICH THEY ARE AWARE AND TO PROVIDE SUPPORTING DOCUMENTATION.

© ISO 2025

ISO/DIS 18275:2025(en)

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

[oSIST prEN ISO 18275:2025](https://standards.iteh.ai/catalog/standards/sist/6a2e0a34-9411-4149-a8f0-b8ae1febc6c2/osist-pren-iso-18275-2025)

<https://standards.iteh.ai/catalog/standards/sist/6a2e0a34-9411-4149-a8f0-b8ae1febc6c2/osist-pren-iso-18275-2025>



COPYRIGHT PROTECTED DOCUMENT

© ISO 2025

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/DIS 18275:2025(en)

Contents

Page

Foreword	v
Introduction	vi
1 Scope	1
2 Normative references	1
3 Terms and definitions	2
4 Classification	2
4.1 General	2
4.2 Classification systems	2
4.3 Compulsory and optional sections	3
4.3.1 General	3
5 Symbols and requirements	3
5.1 Symbol for the product/process	3
5.2 Symbol for tensile properties of all-weld metal	3
5.2.1 Classification by yield strength and 47 J impact energy – System A	3
5.2.2 Classification by tensile strength and 27 J impact energy – System B	3
5.3 Symbol for impact properties of all-weld metal	4
5.3.1 Classification by yield strength and 47 J impact energy – System A	4
5.3.2 Classification by tensile strength and 27 J impact energy – System B	4
5.4 Symbol for chemical composition of all-weld metal	5
5.4.1 Classification by yield strength and 47 J impact energy – System A	5
5.4.2 Classification by tensile strength and 27 J impact energy – System B	5
5.5 Symbol for type of electrode covering	7
5.5.1 Classification by yield strength and 47 J impact energy – System A	7
5.5.2 Classification by tensile strength and 27 J impact energy – System B	7
5.6 Symbol for condition of post-weld heat treatment of all-weld metal	8
5.6.1 Classification by yield strength and 47 J impact energy – System A	8
5.6.2 Classification by tensile strength and 27 J impact energy – System B	8
5.7 Symbol for electrode efficiency and type of current	8
5.7.1 Classification by yield strength and 47 J impact energy – System A	8
5.7.2 Classification by tensile strength and 27 J impact energy – System B	9
5.8 Symbol for welding position	9
5.8.1 Classification by yield strength and 47 J impact energy – System A	9
5.8.2 Classification by tensile strength and 27 J impact energy – System B	9
5.9 Symbol for diffusible hydrogen content of deposited metal	9
5.10 Mechanical property and composition requirements	10
5.10.1 Classification by yield strength and 47 J impact energy – System A	10
5.10.2 Classification by tensile strength and 27 J impact energy – System B	10
6 Mechanical property tests	15
6.1 General	15
6.2 Preheating and interpass temperatures	15
6.2.1 Classification by yield strength and 47 J impact energy – System A	15
6.2.2 Classification by tensile strength and 27 J impact energy – System B	15
6.3 Pass sequence	15
6.3.1 General	15
6.3.2 Classification by yield strength and 47 J impact energy – System A	16
6.3.3 Classification by tensile strength and 27 J impact energy – System B	16
7 Chemical analysis	16
7.1 General	16
7.1.1 Classification by yield strength and 47 J impact energy – System A	16
7.1.2 Classification by tensile strength and 27 J impact energy – System B	16
8 Rounding procedure	16