



SLOVENSKI STANDARD SIST EN ISO 18274:2023

01-julij-2023

Nadomešča:
SIST EN ISO 18274:2012

Dodajni in pomožni materiali za varjenje - Masivne žične in tračne elektrode, žice in palice za talilno varjenje niklja in nikljevih zlitin - Razvrstitev (ISO 18274:2023)

Welding consumables - Solid wire electrodes, solid strip electrodes, solid wires and solid rods for fusion welding of nickel and nickel alloys - Classification (ISO 18274:2023)

Schweißzusätze - Draht- und Bandelektroden, Massivdrähte und -stäbe zum Schmelzschweißen von Nickel und Nickellegierungen - Einteilung (ISO 18274:2023)

Produits consommables pour le soudage - Fils-électrodes pleins, feuillards pleins, fils pleins et baguettes pleines pour le soudage par fusion du nickel et des alliages de nickel - Classification (ISO 18274:2023)

Ta slovenski standard je istoveten z: EN ISO 18274:2023

ICS:

25.160.20	Potrošni material pri varjenju	Welding consumables
77.120.40	Nikelj, krom in njune zlitine	Nickel, chromium and their alloys

SIST EN ISO 18274:2023 en,fr,de

EUROPEAN STANDARD

EN ISO 18274

NORME EUROPÉENNE

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ICS 25.160.20

Supersedes EN ISO 18274:2010

English Version

Welding consumables - Solid wire electrodes, solid strip electrodes, solid wires and solid rods for fusion welding of nickel and nickel alloys - Classification (ISO 18274:2023)

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This European Standard was approved by CEN on 28 March 2023.

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EUROPEAN COMMITTEE FOR STANDARDIZATION
COMITÉ EUROPÉEN DE NORMALISATION
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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 18274:2023) 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of an identical text or by endorsement, at the latest by November 2023, and conflicting national standards shall be withdrawn at the latest by November 2023.

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 18274:2010.

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Endorsement notice

SIST EN ISO 18274:2023

The text of ISO 18274:2023 has been approved by CEN as EN ISO 18274:2023 without any modification.

INTERNATIONAL
STANDARD

ISO
18274

Third edition
2023-04

Welding consumables — Solid wire electrodes, solid strip electrodes, solid wires and solid rods for fusion welding of nickel and nickel alloys — Classification

Produits consommables pour le soudage — Fils-électrodes pleins, feuillets pleins, fils pleins et baguettes pleines pour le soudage par fusion du nickel et des alliages de nickel — Classification

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ISO 18274:2023(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).

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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 third edition cancels and replaces the second edition (ISO 18274:2010), which has been technically revised.

The main changes are as follows:

- new restricted alloy symbols, commonly used in the USA, added to [Table 1](#) and [Table C.1](#);
- alloy symbols updated in [Table 1](#) and [Table C.1](#);
- a new EXAMPLE 4 added to [Clause 11](#) for a Z classification.

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

Introduction

For nickel welding consumables, there is no unique relationship between the product form, for example:

- solid wire electrode;
- solid strip electrode;
- solid wire;
- solid rod;

and the welding process used, for example:

- gas-shielded metal arc welding;
- gas tungsten arc welding;
- plasma arc welding;
- submerged arc welding;
- strip overlay welding;
- laser welding;
- other welding processes.

Consequently, solid wire electrodes, solid strip electrodes, solid wires or solid rods can be classified on the basis of any of these product forms and can be used, as appropriate, for more than one of these processes (see also [Annex B](#)).

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