



SLOVENSKI STANDARD SIST EN ISO 14343:2025

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Nadomešča:

SIST EN ISO 14343:2017

Dodajni in pomožni materiali za varjenje - Žične elektrode, tračne elektrode, žice in palice za obločno varjenje nerjavnih in ognjeodpornih jekel - Razvrstitev (ISO 14343:2025)

Welding consumables - Wire electrodes, strip electrodes, wires and rods for arc welding of stainless and heat resisting steels - Classification (ISO 14343:2025)

Schweißzusätze - Drahtelektroden, Bandelektroden, Drähte und Stäbe zum Lichtbogenschweißen von nichtrostenden und hitzebeständigen Stählen - Einteilung (ISO 14343:2025)

Produits consommables pour le soudage - Fils-électrodes, électrodes en feuillard, fils d'apport et baguettes de soudage pour le soudage à l'arc des aciers inoxydables et des aciers résistant aux températures élevées - Classification (ISO 14343:2025)

Ta slovenski standard je istoveten z: EN ISO 14343:2025

ICS:

25.160.20 Potrošni material pri varjenju Welding consumables

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EUROPEAN STANDARD
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EN ISO 14343

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ICS 25.160.20

Supersedes EN ISO 14343:2017

English Version

**Welding consumables - Wire electrodes, strip electrodes,
wires and rods for arc welding of stainless and heat
resisting steels - Classification (ISO 14343:2025)**

Produits consommables pour le soudage - Fils-
électrodes, électrodes en feuillard, fils d'apport et
baguettes de soudage pour le soudage à l'arc des aciers
inoxydables et des aciers résistant aux températures
élevées - Classification (ISO 14343:2025)

Schweißzusätze - Drahtelektroden, Bandlektroden,
Drähte und Stäbe zum Lichtbogenschweißen von
nichtrostenden und hitzebeständigen Stählen -
Einteilung (ISO 14343:2025)

This European Standard was approved by CEN on 18 August 2024.

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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

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European foreword

This document (EN ISO 14343:2025) 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 July 2025, and conflicting national standards shall be withdrawn at the latest by July 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.

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International Standard

ISO 14343

Welding consumables — Wire electrodes, strip electrodes, wires and rods for arc welding of stainless and heat resisting steels — Classification

*Produits consommables pour le soudage — Fils-électrodes,
électrodes en feuillard, fils d'apport et baguettes de soudage pour
le soudage à l'arc des aciers inoxydables et des aciers résistant
aux températures élevées — Classification*

Fourth edition 2025-01

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ISO 14343:2025(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).

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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 fourth edition cancels and replaces the third edition (ISO 14343:2017), which has been technically revised.

The main changes are as follows:

- addition of 19 L Mo Nb Si Ti, 18 L Ti for the alloy type 439, 27 7 5 N L and 29 8 2 N L in [Table 1](#) and [Table A.1](#);
- adjustment of chemical compositions in [Table 1](#);
- change of [Table 1](#) footnote c on the symbol classifications in parentheses;
- Addition of G classification in [Table 1](#) for System B and new footnote;
- revision of Clause 10, Example 5.

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>.

ISO 14343:2025(en)

Introduction

This document provides a classification system for wire electrodes, strip electrodes, wires and rods for arc welding of stainless and heat resisting steels. It recognizes that there are two somewhat different approaches in the global market to classifying a given welding consumable, and allows for either or both to be used, to suit a particular market need. Many, but not all, commercial products addressed by this document can be classified using both approaches, and suitable products can also be marked.

System A uses the nominal composition approach with designators to indicate the principal alloying elements at their nominal levels, in a particular sequence, and which is sometimes followed by chemical element symbols to indicate compositional modifications to the original grade. System B uses the alloy type approach with three- or four-digit designations for certain grades, sometimes followed by one or more chemical element symbols indicating compositional modifications of the grade. In both approaches, classification is based upon the chemical composition of the product. In many cases, a given product can be classified using both approaches, because the composition ranges, although slightly different, overlap to a considerable extent between the two.

For stainless steel welding consumables, there is no unique relationship between the product form (wire electrode, strip electrode, wire or rod) and the welding process used (gas-shielded metal arc welding, gas tungsten arc welding, plasma arc welding, submerged arc welding, electroslag welding and laser beam welding). For this reason, the wire electrodes, strip electrodes, wires or rods can be classified on the basis of any of the above product forms and can be used, as appropriate, for more than one of the above processes.

Classification in accordance with system A, by nominal composition, was based mainly on EN 12072 which has been withdrawn and replaced by this document. Classification in accordance with system B, by alloy type, is mainly based upon standards used around the Pacific Rim.

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