

# SLOVENSKI STANDARD

## SIST EN ISO 18274:2012

01-januar-2012

Nadomešča:

SIST EN ISO 18274:2004

SIST EN ISO 18274:2004/AC:2007

---

**Dodajni materiali za varjenje - Žične in tračne elektrode, žice in palice za talilno varjenje niklja in nikljevih zlitin - Razvrstitev (ISO 18274:2010)**

Welding consumables - Wire and strip electrodes, wires and rods for fusion welding of nickel and nickel alloys - Classification (ISO 18274:2010)

**iTeh STANDARD PREVIEW**

Schweißzusätze - Draht- und Bandlektroden, Massivdrähte und -stäbe zum Schmelzschweißen von Nickel und Nickellegierungen - Einteilung (ISO 18274:2010)

[SIST EN ISO 18274:2012](https://standards.itih.si/catalog/standards/sist/92829861-9827-4810-a61b-71b5d8083d67/sist-en-iso-18274-2012)

Produits consommables pour le soudage - Fils-électrodes et feuillards, fils et baguettes pour le soudage par fusion du nickel et des alliages de nickel - Classification (ISO 18274:2010)

**Ta slovenski standard je istoveten z: EN ISO 18274:2010**

---

**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 18274:2012**

**en,fr,de**

**iTeh STANDARD PREVIEW**  
**(standards.iteh.ai)**

SIST EN ISO 18274:2012

<https://standards.iteh.ai/catalog/standards/sist/92829861-9827-4810-a61b-71b5d8b83d67/sist-en-iso-18274-2012>

EUROPEAN STANDARD  
NORME EUROPÉENNE  
EUROPÄISCHE NORM

**EN ISO 18274**

December 2010

ICS 25.160.20

Supersedes EN ISO 18274:2004

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 18274:2010)**

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 18274:2010)

Schweißzusätze - Draht- und Bandlektroden, Massivdrähte und -stäbe zum Schmelzschiessen von Nickel und Nickellegierungen - Einteilung (ISO 18274:2010)

This European Standard was approved by CEN on 14 December 2010.

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, Romania, Slovakia, Slovenia, Spain, Sweden, Switzerland and United Kingdom.



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

**Management Centre: Avenue Marnix 17, B-1000 Brussels**

**Contents**

Page

Foreword.....3

**iTeh STANDARD PREVIEW  
(standards.iteh.ai)**

[SIST EN ISO 18274:2012](#)

<https://standards.iteh.ai/catalog/standards/sist/92829861-9827-4810-a61b-71b5d8b83d67/sist-en-iso-18274-2012>

## Foreword

This document (EN ISO 18274:2010) has been prepared by Technical Committee ISO/TC 44 "Welding and allied processes" in collaboration with Technical Committee CEN/TC 121 "Welding" 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 June 2011, and conflicting national standards shall be withdrawn at the latest by June 2011.

Attention is drawn to the possibility that some of the elements of this document may be the subject of patent rights. CEN [and/or CENELEC] shall not be held responsible for identifying any or all such patent rights.

This document supersedes EN ISO 18274:2004.

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, Romania, Slovakia, Slovenia, Spain, Sweden, Switzerland and the United Kingdom.

**iTeh STANDARD PREVIEW**  
**(standards.iteh.ai)**  
**Endorsement notice**

The text of ISO 18274:2010 has been approved by CEN as a EN ISO 18274:2010 without any modification.

[SIST EN ISO 18274:2012](https://standards.iteh.ai/catalog/standards/sist/92829861-9827-4810-a61b-71b5d8b83d67/sist-en-iso-18274-2012)

<https://standards.iteh.ai/catalog/standards/sist/92829861-9827-4810-a61b-71b5d8b83d67/sist-en-iso-18274-2012>

**iTeh STANDARD PREVIEW**  
**(standards.iteh.ai)**

SIST EN ISO 18274:2012

<https://standards.iteh.ai/catalog/standards/sist/92829861-9827-4810-a61b-71b5d8b83d67/sist-en-iso-18274-2012>

# INTERNATIONAL STANDARD

# ISO 18274

Second edition  
2010-12-15

---

---

## 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*

iTeh STANDARD PREVIEW  
(standards.iteh.ai)

[SIST EN ISO 18274:2012](https://standards.iteh.ai/catalog/standards/sist/92829861-9827-4810-a61b-71b5d8b83d67/sist-en-iso-18274-2012)

<https://standards.iteh.ai/catalog/standards/sist/92829861-9827-4810-a61b-71b5d8b83d67/sist-en-iso-18274-2012>



Reference number  
ISO 18274:2010(E)

© ISO 2010

## ISO 18274:2010(E)

**PDF disclaimer**

This PDF file may contain embedded typefaces. In accordance with Adobe's licensing policy, this file may be printed or viewed but shall not be edited unless the typefaces which are embedded are licensed to and installed on the computer performing the editing. In downloading this file, parties accept therein the responsibility of not infringing Adobe's licensing policy. The ISO Central Secretariat accepts no liability in this area.

Adobe is a trademark of Adobe Systems Incorporated.

Details of the software products used to create this PDF file can be found in the General Info relative to the file; the PDF-creation parameters were optimized for printing. Every care has been taken to ensure that the file is suitable for use by ISO member bodies. In the unlikely event that a problem relating to it is found, please inform the Central Secretariat at the address given below.

## iTeh STANDARD PREVIEW (standards.iteh.ai)

[SIST EN ISO 18274:2012](https://standards.iteh.ai/catalog/standards/sist/92829861-9827-4810-a61b-71b5d8b83d67/sist-en-iso-18274-2012)

<https://standards.iteh.ai/catalog/standards/sist/92829861-9827-4810-a61b-71b5d8b83d67/sist-en-iso-18274-2012>

**COPYRIGHT PROTECTED DOCUMENT**

© ISO 2010

All rights reserved. Unless otherwise specified, no part of this publication may be reproduced or utilized in any form or by any means, electronic or mechanical, including photocopying and microfilm, without permission in writing from either ISO at the address below or ISO's member body in the country of the requester.

ISO copyright office  
Case postale 56 • CH-1211 Geneva 20  
Tel. + 41 22 749 01 11  
Fax + 41 22 749 09 47  
E-mail [copyright@iso.org](mailto:copyright@iso.org)  
Web [www.iso.org](http://www.iso.org)

Published in Switzerland



<b>Contents</b>	<b>Page</b>
<b>Foreword</b> .....	<b>iv</b>
<b>Introduction</b> .....	<b>v</b>
<b>1 Scope</b> .....	<b>1</b>
<b>2 Normative references</b> .....	<b>1</b>
<b>3 Classification</b> .....	<b>1</b>
<b>4 Symbols and requirements</b> .....	<b>1</b>
<b>4.1 Symbols for the product form</b> .....	<b>1</b>
<b>4.2 Symbol for the chemical composition</b> .....	<b>2</b>
<b>5 Mechanical properties of the weld metal</b> .....	<b>9</b>
<b>6 Chemical analysis</b> .....	<b>9</b>
<b>7 Rounding procedure</b> .....	<b>9</b>
<b>8 Retest</b> .....	<b>9</b>
<b>9 Technical delivery conditions</b> .....	<b>9</b>
<b>10 Designation</b> .....	<b>9</b>
<b>Annex A (informative) Description of consumables classes</b> .....	<b>11</b>
<b>Annex B (informative) System for designation of welding filler metals</b> .....	<b>18</b>
<b>Annex C (informative) Corresponding national classifications and typical weld metal tensile strengths</b> .....	<b>19</b>
<b>Bibliography</b> .....	<b>24</b>

**ISO 18274:2010(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.

International Standards are drafted in accordance with the rules given in the ISO/IEC Directives, Part 2.

The main task of technical committees is to prepare International Standards. Draft International Standards adopted by the technical committees are circulated to the member bodies for voting. Publication as an International Standard requires approval by at least 75 % of the member bodies casting a vote.

Attention is drawn to the possibility that some of the elements of this document may be the subject of patent rights. ISO shall not be held responsible for identifying any or all such patent rights.

ISO 18274 was prepared by Technical Committee ISO/TC 44, *Welding and allied processes*, Subcommittee SC 3, *Welding consumables*.

This second edition cancels and replaces the first edition (ISO 18274:2004), of which it constitutes a technical revision. It also incorporates the Technical Corrigenda ISO 18274:2004/Cor.1:2005 and ISO 18274:2004/Cor.2:2006.

Requests for official interpretation of any aspect of this International Standard should be directed to the Secretariat of ISO/TC 44/SC 3 via your national standards body. A complete listing of these bodies can be found at [www.iso.org](http://www.iso.org).

## Introduction

For nickel welding consumables, there is no unique relationship between the product form (solid wire electrode, solid strip electrode, solid wire or solid rod) and the welding process used (e.g. gas shielded metal arc welding, gas tungsten arc welding, plasma arc welding, submerged arc welding, strip overlay welding, laser welding or other welding processes). For this reason, the solid wire electrode, solid strip electrode, solid wire or solid rod may 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.

## iTeh STANDARD PREVIEW (standards.iteh.ai)

[SIST EN ISO 18274:2012](https://standards.iteh.ai/catalog/standards/sist/92829861-9827-4810-a61b-71b5d8b83d67/sist-en-iso-18274-2012)

<https://standards.iteh.ai/catalog/standards/sist/92829861-9827-4810-a61b-71b5d8b83d67/sist-en-iso-18274-2012>

**iTeh STANDARD PREVIEW**  
**(standards.iteh.ai)**

SIST EN ISO 18274:2012

<https://standards.iteh.ai/catalog/standards/sist/92829861-9827-4810-a61b-71b5d8b83d67/sist-en-iso-18274-2012>