

SLOVENSKI STANDARD

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Nadomešča:

SIST EN ISO 15011-4:2006

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Zdravje in varnost pri varjenju in sorodnih tehnikah - Laboratorijska metoda za vzorčenje dima in plinov - 4. del: Prikaz podatkov o dimu (ISO 15011-4:2017)

Health and safety in welding and allied processes - Laboratory method for sampling fume and gases - Part 4: Fume data sheets (ISO 15011-4:2017)

iTeh STANDARD PREVIEW

Arbeits- und Gesundheitsschutz beim Schweißen und bei verwandten Verfahren - Laborverfahren zum Sammeln von Rauch und Gasen - Teil 4: Rauchdatenblätter (ISO 15011-4:2017)

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Hygiène et sécurité en soudage et techniques connexes - Méthode de laboratoire d'échantillonnage des fumées et des gaz - Partie 4: Fiches d'information sur les fumées (ISO 15011-4:2017)

Ta slovenski standard je istoveten z: EN ISO 15011-4:2018

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25.160.10	Varilni postopki in varjenje	Welding processes

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en,fr,de

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EUROPEAN STANDARD

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Health and safety in welding and allied processes - Laboratory method for sampling fume and gases - Part 4: Fume data sheets (ISO 15011-4:2017)

Hygiène et sécurité en soudage et techniques connexes
- Méthode de laboratoire d'échantillonnage des fumées
et des gaz - Partie 4: Fiches d'information sur les
fumées (ISO 15011-4:2017)

Arbeits- und Gesundheitsschutz beim Schweißen und
bei verwandten Verfahren - Laborverfahren zum
Sammeln von Rauch und Gasen - Teil 4:
Rauchdatenblätter (ISO 15011-4:2017)

This European Standard was approved by CEN on 7 December 2017.

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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.

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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

Contents	Page
European foreword.....	3

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[SIST EN ISO 15011-4:2018](https://standards.iteh.ai/catalog/standards/sist/a231b0b9-628a-46a3-ba53-e62f4f61c58d/sist-en-iso-15011-4-2018)
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European foreword

This document (EN ISO 15011-4:2018) 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 August 2018, and conflicting national standards shall be withdrawn at the latest by August 2018.

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 15011-4:2006.

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, Former Yugoslav Republic of Macedonia, France, Germany, Greece, Hungary, Iceland, Ireland, Italy, Latvia, Lithuania, Luxembourg, Malta, Netherlands, Norway, Poland, Portugal, Romania, Serbia, Slovakia, Slovenia, Spain, Sweden, Switzerland, Turkey and the United Kingdom.

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INTERNATIONAL
STANDARD

ISO
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Second edition
2017-12

**Health and safety in welding and
allied processes — Laboratory method
for sampling fume and gases —**

**Part 4:
Fume data sheets**

iTeh STANDARD PREVIEW
(standards.iteh.ai)
*Hygiène et sécurité en soudage et techniques connexes — Méthode de
laboratoire d'échantillonnage des fumées et des gaz —
Partie 4: Fiches d'information sur les fumées*

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Contents

Page

Foreword	iv
Introduction	v
1 Scope	1
2 Normative references	1
3 Terms and definitions	1
4 Principle	2
5 Procedure	2
6 Test conditions	3
6.1 Generic test parameters.....	3
6.2 Testing of manual metal arc welding electrodes.....	5
6.3 Testing of solid, metal-cored and flux-cored wires used in gas-shielded metal arc welding.....	5
6.4 Testing of flux-cored wires used in self-shielded metal arc welding.....	7
7 Reporting of results	8
7.1 Fume data sheet.....	8
7.2 Transitional arrangements.....	9
7.3 Retesting.....	9
7.4 Data sharing.....	9
7.5 Validation of fume data sheets.....	10
Annex A (normative) Fume data sheet	11
Annex B (informative) Optional additional section of a fume data sheet	13
Annex C (informative) Examples of performance data	14
Annex D (informative) Uses of welding fume data	16
Annex E (informative) Principal and key components of welding fume	19
Annex F (informative) Example of a welding consumable classification system	21
Annex G (informative) Example of a fume data sheet for a stainless steel manual metal arc welding electrode (including the optional additional section)	22
Bibliography	24

ISO 15011-4:2017(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).

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. Details of any patent rights identified during the development of the document will be in the Introduction and/or on the ISO list of patent declarations received (see www.iso.org/patents).

Any trade name used in this document is information given for the convenience of users and does not constitute an endorsement.

For an explanation on 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 the following URL: www.iso.org/iso/foreword.html. (standards.iteh.ai)

This document was prepared by Technical Committee ISO/TC 44, *Welding and allied processes*, Subcommittee SC 9, *Health and safety*. [SIST EN ISO 15011-4:2018](https://standards.iteh.ai/catalog/standards/sist/a231b0b9-628a-46a3-ba53-624816581/draft-iso-15011-4)

This second edition cancels and replaces the first edition (ISO 15011-4:2006), which has been technically revised. It also incorporates the Amendment ISO 15011-4:2006/Amd.1:2008. The main change compared to the previous edition is the replacement of indium (In) 3 times in Table C.4 to nickel (Ni).

Requests for official interpretations of any aspect of this document should be directed to the Secretariat of ISO/TC 44/SC 9 via your national standards body. A complete listing of these bodies can be found at www.iso.org.

Introduction

Welding and allied processes produce airborne particles and gaseous by-products that can be harmful to human health. Knowledge of the quantity and composition of the airborne particles and gases emitted can be useful for occupational hygienists in assessing workplace exposure and in determining appropriate control measures.

Welding processes, consumables and parameters give rise to various fume emission rates, which in turn lead to different welder exposures. Emission rate cannot be used directly to assess exposure. However, processes, consumables and welding parameters that give lower emission rates generally result in lower welder exposures than processes with higher emission rates used in the same working situation.

Clear instructions and supporting informative guidance are provided in order to ensure that the welding conditions used are selected thoughtfully according to a standardized procedure. The need to fully report the welding conditions used in the test is emphasized, and an example is provided of how such information should be conveyed on a fume data sheet. This document also gives information about how the data obtained can be used.

It has been assumed in the drafting of this document that the execution of its provisions and the interpretation of the results obtained are entrusted to appropriately qualified and experienced people.

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