

SLOVENSKI STANDARD

SIST EN ISO 21904-4:2020

01-maj-2020

Nadomešča:

SIST EN ISO 15012-2:2008

Zdravje in varnost pri varjenju in sorodnih postopkih - Oprema za zajem in ločevanje varilnega dima - 4. del: Določanje najmanjšega volumenskega pretoka zraka skozi odsesovalne naprave (ISO 21904-4:2020)

Health and safety in welding and allied processes - Equipment for capture and separation of welding fume - Part 4: Determination of the minimum air volume flow rate of capture devices (ISO 21904-4:2020)

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Arbeits- und Gesundheitsschutz beim Schweißen und bei verwandten Verfahren - Einrichtungen zum Erfassen und Abscheiden von Schweißrauch - Teil 4: Bestimmen des Mindestluftvolumenstromes von Absaugeinrichtungen (ISO 21904-4:2020)

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Hygiène et sécurité en soudage et techniques connexes - Équipements de captage et de filtration des fumées - Partie 4: Détermination du débit volumique minimal d'air des dispositifs de captage (ISO 21904-4:2020)

Ta slovenski standard je istoveten z: EN ISO 21904-4:2020

ICS:

13.040.40	Emisije nepremičnih virov	Stationary source emissions
13.100	Varnost pri delu. Industrijska higiena	Occupational safety. Industrial hygiene
25.160.30	Varilna oprema	Welding equipment

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en,fr,de

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EUROPEAN STANDARD

EN ISO 21904-4

NORME EUROPÉENNE

EUROPÄISCHE NORM

March 2020

ICS 13.100; 25.160.30

Supersedes EN ISO 15012-2:2008

English Version

Health and safety in welding and allied processes -
Equipment for capture and separation of welding fume -
Part 4: Determination of the minimum air volume flow
rate of capture devices (ISO 21904-4:2020)

Hygiène et sécurité en soudage et techniques connexes
- Équipements de captage et de filtration des fumées -
Partie 4: Détermination du débit volumique minimal
d'air des dispositifs de captage (ISO 21904-4:2020)

Arbeits- und Gesundheitsschutz beim Schweißen und
bei verwandten Verfahren - Einrichtungen zum
Erfassen und Abscheiden von Schweißrauch - Teil 4:
Bestimmen des Mindestluftvolumenstromes von
Absaugeinrichtungen (ISO 21904-4:2020)

This European Standard was approved by CEN on 20 January 2020.

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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 21904-4:2020) 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 September 2020, and conflicting national standards shall be withdrawn at the latest by September 2020.

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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STANDARDISO
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**Health and safety in welding and allied
processes — Equipment for capture
and separation of welding fume —****Part 4:
Determination of the minimum air
volume flow rate of capture devices**

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*Hygiène et sécurité en soudage et techniques connexes —
Équipements de captage et de filtration des fumées —**Partie 4: Détermination du débit volumique minimal d'air des
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ISO 21904-4:2020(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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For an explanation of 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 www.iso.org/iso/foreword.html.

This document was prepared by Technical Committee ISO/TC 44, *Welding and allied processes*, Subcommittee SC 9, *Health and safety*.

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>.

A list of all parts in the ISO 21904 series can be found on the ISO website.

This first edition cancels and replaces ISO 15012-2.

Introduction

Welding and allied processes generate fume and gases, which, if inhaled, can be harmful to human health. Control is often required to maintain exposure at acceptable levels and this can be achieved by capturing the fume and gases using local exhaust ventilation.

For a particular capture device, the air velocity to capture welding fume can only be achieved by applying a minimum air volume flow rate. Consequently, capture devices need to be used with exhaust systems that provide, at least, the minimum air volume flow rate.

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