



**SLOVENSKI STANDARD
SIST EN ISO 11612:2015**

01-september-2015

**Nadomešča:
SIST EN ISO 11612:2009**

Varovalna obleka - Obleka za varovanje pred toploto in plamenom - Minimalne zahtevane lastnosti (ISO 11612:2015)

Protective clothing - Clothing to protect against heat and flame - Minimum performance requirements (ISO 11612:2015)

Schutzkleidung - Kleidung zum Schutz gegen Hitze und Flammen (ISO 11612:2015)

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Vêtements de protection - Vêtements de protection contre la chaleur et les flammes - Exigences de performance minimales (ISO 11612:2015)

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Ta slovenski standard je istoveten z: EN ISO 11612:2015

ICS:

13.340.10 Varovalna obleka Protective clothing

SIST EN ISO 11612:2015 **en**

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EUROPEAN STANDARD

EN ISO 11612

NORME EUROPÉENNE

EUROPÄISCHE NORM

July 2015

ICS 13.340.10

Supersedes EN ISO 11612:2008

English Version

Protective clothing - Clothing to protect against heat and flame - Minimum performance requirements (ISO 11612:2015)

Vêtements de protection - Vêtements de protection contre
la chaleur et les flammes - Exigences de performance
minimales (ISO 11612:2015)

Schutzkleidung - Kleidung zum Schutz gegen Hitze und
Flammen (ISO 11612:2015)

This European Standard was approved by CEN on 14 May 2015.

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

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

CEN-CENELEC Management Centre: Avenue Marnix 17, B-1000 Brussels

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European foreword

This document (EN ISO 11612:2015) has been prepared by Technical Committee CEN/TC 162 "Protective clothing including hand and arm protection and lifejackets", the secretariat of which is held by DIN, in collaboration with Technical Committee ISO/TC 94 "Personal safety -- Protective clothing and equipment".

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 January 2016, and conflicting national standards shall be withdrawn at the latest by January 2016.

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 11612:2008.

This document has been prepared under a mandate given to CEN by the European Commission and the European Free Trade Association, and supports essential requirements of EU Directive(s).

For relationship with EU Directive(s), see informative Annex ZA, which is an integral part of this document.

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

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Endorsement notice

The text of ISO 11612:2015 has been approved by CEN as EN ISO 11612:2015 without any modification.

Annex ZA (informative)

Relationship between this European Standard and the Essential Requirements of EU Directive 89/686/EEC

This European Standard has been prepared under a mandate given to CEN by the European Commission and the European Free Trade Association to provide one means of conforming to Essential Requirements of the New Approach Directive 89/686/EEC on the approximation of the laws of the Member States relating to personal protective equipment.

Once this standard is cited in the Official Journal of the European Union under that Directive and has been implemented as a national standard in at least one Member State, compliance with the normative clauses of this International Standard given in Table ZA.1 confers, within the limits of the scope of this International Standard, a presumption of conformity with the corresponding Essential Requirements of that Directive and associated EFTA regulations.

Table ZA.1 — Correspondence between this International Standard and Directive 89/686/EEC

Clause(s)/sub-clause(s) of this International Standard	Essential requirements (ERs) of EU Directive 89/686/EEC, Annex II	Qualifying remarks/Notes
4.2.2., 4.2.3., 4.3, 4.4, 4.5, 6.2, 6.4, and 6.6	1.2.1 Absence of risks and other 'inherent' nuisance factors.	
4.2.2.	1.3.1 Adaptation of PPE to user morphology.	
5.2, Clause 8, Clause 9	1.4 Information supplied by manufacturer.	
5.3.	2.4 PPE subject to ageing	
5.2.1, 6.3, 7.2, 7.3, 7.4, 7.5, and 7.6	3.6.1 Protection against heat and/or fire. PPE constituent materials and other components.	
7.2, 7.3, 7.4, 7.5, and 7.6	3.6.2 Protection against heat and/or fire. Complete PPE ready for use.	
6.5	1.3.2 Lightness and design strength.	
Clause 8	2.12 PPE bearing one or more identification or recognition marks directly or indirectly relating to health and safety.	

WARNING: Other requirements and other EU Directives may be applicable to the products falling within the scope of this standard.

INTERNATIONAL
STANDARD

ISO
11612

Third edition
2015-07-01

**Protective clothing — Clothing to
protect against heat and flame —
Minimum performance requirements**

*Vêtements de protection — Vêtements de protection contre la chaleur
et les flammes — Exigences de performance minimales*

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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 meaning of ISO specific terms and expressions related to conformity assessment, as well as information about ISO's adherence to the WTO principles in the Technical Barriers to Trade (TBT), see the following URL: [Foreword — Supplementary information](#).

The committee responsible for this document is ISO/TC 94, *Personal safety — Protective clothing and equipment*, Subcommittee SC 13, and by Technical Committee CEN/TC 162, *Protective clothing including hand and arm protection and lifejackets* in collaboration.

This third edition cancels and replaces the second edition (ISO 11612:2008), of which it constitutes a minor revision with the following changes:

- modify clause in design requirements regarding garment overlaps;
- modify clause in design requirements regarding the areas of the body covered by protective suits;
- modify clause on sampling requirements;
- modify clause for ageing due to washing (maximum number of cleaning procedures as indicated by the manufacturer);
- modify pre-treatment clause to include requirements for single-use garments;
- include new requirement for measuring property value for rating and classification;
- modify requirement for optional heat resistance testing at 260 °C;
- remove reference to melting from flame spread requirements;
- modify afterflame requirement for flame spread;
- modify afterglow requirement for flame spread;
- modify requirement that hardware is tested only after pre-treatment;
- include statement for flame spread testing in regard to interlining materials;
- modify test procedure for the flame testing of labels, badges, and retro-reflective materials;
- modify requirements for tear strength;

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- specify test area for burst strength testing;
- modify innocuousness clause to include reference to ISO 13688;
- specify limit for Chromium(VI) Content;
- include new table for summary of tests;
- modify clause for information to be supplied by the manufacturer;
- include new Annex for measuring property value for rating and classification;
- update observation clause in [Annex C](#), prediction of burn injury using an instrumented manikin;
- include new definition for uncertainty of measurement, [Annex E](#).

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