

SLOVENSKI STANDARD SIST EN ISO 6942:2022

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Nadomešča:

SIST EN ISO 6942:2002

Varovalna obleka - Zaščita pred toploto in ognjem - Metoda preskušanja: vrednotenje materialov in izdelkov iz teh materialov, ki so izpostavljeni viru toplotnega sevanja (ISO 6942:2022)

Protective clothing - Protection against heat and fire - Method of test: Evaluation of materials and material assemblies when exposed to a source of radiant heat (ISO 6942:2022)

Schutzkleidung - Schutz gegen Hitze und Feuer - Prüfverfahren: Beurteilung von Materialien und Materialkombinationen, die einer Hitze Strahlungsquelle ausgesetzt sind (ISO 6942:2022) tandards teh al/catalog/standards/sist/5721943d-c91b-415d-8e2a-

Vêtements de protection - Protection contre la chaleur et le feu - Méthode d'essai: Évaluation des matériaux et assemblages des matériaux exposés à une source de chaleur radiante (ISO 6942:2022)

Ta slovenski standard je istoveten z: EN ISO 6942:2022

ICS:

13.340.10 Varovalna obleka Protective clothing

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EUROPEAN STANDARD NORME EUROPÉENNE EUROPÄISCHE NORM

EN ISO 6942

September 2022

ICS 13.340.10

Supersedes EN ISO 6942:2002

English Version

Protective clothing - Protection against heat and fire - Method of test: Evaluation of materials and material assemblies when exposed to a source of radiant heat (ISO 6942:2022)

Vêtements de protection - Protection contre la chaleur et le feu - Méthode d'essai: Évaluation des matériaux et assemblages des matériaux exposés à une source de chaleur radiante (ISO 6942:2022) Schutzkleidung - Schutz gegen Hitze und Feuer -Prüfverfahren: Beurteilung von Materialien und Materialkombinationen, die einer Hitze Strahlungsquelle ausgesetzt sind (ISO 6942:2022)

This European Standard was approved by CEN on 17 June 2022.

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.

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

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EN ISO 6942:2022 (E)

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European foreword

This document (EN ISO 6942:2022) has been prepared by Technical Committee ISO/TC 94 "Personal safety -- Personal protective equipment" in collaboration with Technical Committee CEN/TC 162 "Protective clothing including hand and arm protection and lifejackets" 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 March 2023, and conflicting national standards shall be withdrawn at the latest by March 2023.

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 6942:2002.

This document has been prepared under a Standardization Request given to CEN by the European Commission and the European Free Trade Association.

Any feedback and questions on this document should be directed to the users' national standards body/national committee. A complete listing of these bodies can be found on the CEN website.

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Endorsement notice

The text of ISO 6942:2022 has been approved by CEN as EN ISO 6942:2022 without any modification.

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INTERNATIONAL STANDARD

ISO 6942

Fourth edition 2022-08

Protective clothing — Protection against heat and fire — Method of test: Evaluation of materials and material assemblies when exposed to a source of radiant heat

Vêtements de protection — Protection contre la chaleur et le feu — Méthode d'essai: Évaluation des matériaux et assemblages des matériaux exposés à une source de chaleur radiante

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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).

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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 94, *Personal safety* — *Personal protective equipment*, Subcommittee SC 13, *Protective clothing*, in collaboration with the European Committee for Standardization (CEN) Technical Committee CEN/TC 162, *Protective clothing including hand and arm protection and lifejackets*, in accordance with the Agreement on technical cooperation between ISO and CEN (Vienna Agreement).

This fourth edition cancels and replaces the third edition (ISO 6942:2002), which has been technically revised.

The main changes are as follows:

- normative references have been updated (see <u>Clause 2</u>);
- the specified relative humidity range for the conditioning atmosphere has been changed (see 7.1);
- an example product for the optically black paint has been provided (see 5.4);
- the annex on ILT has been revised (Annex A).

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.

Introduction

Protective clothing against radiant heat is worn at different occasions and accordingly the radiation intensity (characterised by the heat flux density) acting on the clothing material extends over a wide range. This document describes two test methods which can be applied to all sorts of materials, but, according to the intended use of the material, the heat flux density has to be chosen properly and the results have to be interpreted correctly,

Industrial workers or fire fighters may be exposed to a relatively low radiation intensity over a long period of time. On the other hand, industrial workers or fire fighters may be exposed to medium radiation intensities for relatively short periods of time or to high radiation intensities for very short periods of time. In the latter case, the clothing material may be changed or even destroyed.

The materials for protective clothing are usually tested at medium and high heat flux densities. The response of materials to method A and the times t_{12} and t_{24} and transmission factor measured with method B characterise the material. For information on the precision of method B, see <u>Annex A</u>.

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