

STN	Odevy a prostriedky na ochranu pred teplom Skúšobná metóda na stanovenie odolnosti proti konvekčnému teplu použitím sušiarne s cirkuláciou horúceho vzduchu	STN ISO 17493 83 2871
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Clothing and equipment for protection against heat
Test method for convective heat resistance using a hot air circulating oven

Vêtements et équipement de protection contre la chaleur
Méthode d'essai de la résistance à la chaleur de convection au moyen d'un four à circulation d'air chaud

Táto slovenská technická norma obsahuje anglickú verziu medzinárodnej normy ISO 17493: 2016 a má postavenie oficiálnej verzie.

This Slovak standard includes the English version of the International standard ISO 17493: 2016 and has the status of the official version.

Nahradenie predchádzajúcich slovenských technických noriem

Táto slovenská technická norma nahrádza STN ISO 17493 z októbra 2004 v celom rozsahu.

135453

Anotácia

Tento dokument opisuje skúšobnú metódu na vyhodnotenie tepelnej odolnosti materiálov ochranných odevov alebo ich súčastí a prostriedkov, po expozícii v sušiarňi s cirkulujúcim horúcim vzduchom. Metóda je určená na vyhodnotenie fyzikálnych zmien materiálov po expozícii pri danej teplote. Na materiáloch sa hodnotia definované viditeľné zmeny vrátane merania zmeny rozmerov (zmrštenia).

V závislosti od typu skúšaného materiálu ochranného odevu alebo jeho súčasti a prostriedku sú uvedené rôzne postupy.

Národný predhovor

Normatívne referenčné dokumenty

Nasledujúce dokumenty, celé alebo ich časti, sú v tomto dokumente normatívnymi odkazmi a sú nevyhnutné pri jeho používaní. Pri datovaných odkazoch sa použije len citované vydanie. Pri nedatovaných odkazoch sa použije najnovšie vydanie citovaného dokumentu (vrátane všetkých zmien).

POZNÁMKA 1. – Ak bola medzinárodná publikácia zmenená spoločnými modifikáciami, čo je indikované označením (mod), použije sa príslušná EN/HD.

POZNÁMKA 2. – Aktuálne informácie o platných a zrušených STN a TNI možno získať na webovom sídle www.unms.sk.

ISO 3759 prijatá ako STN EN ISO 3759 Textilie. Príprava, označovanie a meranie vzoriek plošných textílií a odevov pri skúškach zisťovania zmien rozmerov (ISO 3759) (80 0825)

ISO 3873 dosiaľ neprijatá

ISO 4643: 1992 prijatá ako STN ISO 4643 Tvárnená plastová obuv. Obuv z polyvinylchloridu s podšívku alebo bez podšívky na všeobecné použitie v priemysle. Špecifikácia (83 2512)

IEC 60584-1 prijatá ako STN EN 60584-1 Termočlánky. Časť 1: Špecifikácie a tolerancie elektromotorických napätí (EMF) (25 8331)

Vypracovanie slovenskej technickej normy

Spracovateľ: Úrad pre normalizáciu, metrológiu a skúšobníctvo SR, Bratislava

Technická komisia: TK 91 Osobné ochranné prostriedky

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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 World Trade Organization (WTO) principles in the Technical Barriers to Trade (TBT) see the following URL: www.iso.org/iso/foreword.html.

The committee responsible for this document is ISO/TC 94, *Personal safety — Protective clothing and equipment*, Subcommittee SC 13, *Protective clothing*.

This second edition cancels and replaces the first edition (ISO 17493:2000), which has been technically revised with the following changes:

- the specifications for the apparatus have been improved and completed ([5.1](#), [5.2](#), [5.4](#), new [5.5](#), [5.6](#), [5.7](#));
- procedures for the calibration of the test oven have been added (new [Clause 7](#));
- a list of ASTM standards related to ISO 17493 is given in the Bibliography.

Introduction

This test method allows for the evaluation of the heat resistance of materials, protective clothing and equipment when suspended in a hot air circulating oven at a specified temperature of typically 180 °C or 260 °C for typically 5 min. Visible observations of charring, deformation, delamination, hole formation, ignition, melting of the specimen are recorded. The exposure in the hot air circulating oven may be used either for a visual evaluation only or as a pre-treatment for a material property measurement such as shrinkage or other property measurement which is not specified in this document.

Clothing and equipment for protection against heat — Test method for convective heat resistance using a hot air circulating oven

1 Scope

This document describes a test method for evaluating the heat resistance of protective clothing materials or items and equipment when exposed in a hot air circulating oven. The method is intended to evaluate physical changes in a material at a given exposure temperature. Materials are evaluated for defined visible changes including the measurement of shrinkage.

Different procedures are provided depending on the type of the protective clothing material or item being tested.

2 Normative references

The following documents are referred to in the text in such a way that some or all of their content constitutes requirements of this document. For dated references, only the edition cited applies. For undated references, the latest edition of the referenced document (including any amendments) applies.

ISO 3759, *Textiles — Preparation, marking and measuring of fabric specimens and garments in tests for determination of dimensional change*

ISO 3873, *Industrial safety helmets*

ISO 4643:1992, *Moulded plastics footwear — Lined or unlined poly(vinyl chloride) boots for general industrial use — Specification*

IEC 60584-1, *Thermocouples — Part 1: EMF specifications and tolerances*

koniec náhľadu – text ďalej pokračuje v platenej verzii STN