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# SILMADE JA NÄO KAITSEVAHENDID TÖÖKESKKONNAS KASUTAMISEKS. OSA 3: LISANÕUDED VÕRKKAITSETELE

Eye and face protection for occupational use - Part 3: Additional requirements for mesh protectors (ISO 16321-3:2021)



### EESTI STANDARDI EESSÕNA

#### NATIONAL FOREWORD

See Eesti standard EVS-EN ISO 16321-3:2022 sisaldab Euroopa standardi EN ISO 16321-3:2022 ingliskeelset teksti.	This Estonian standard EVS-EN ISO 16321-3:2022 consists of the English text of the European standard EN ISO 16321-3:2022.		
Standard on jõustunud sellekohase teate avaldamisega EVS Teatajas Euroopa standardimisorganisatsioonid on teinud Euroopa standardi rahvuslikele liikmetele kättesaadavaks 27.04.2022.	This standard has been endorsed with a notification published in the official bulletin of the Estonian Centre for Standardisation and Accreditation.		
	Date of Availability of the European standard is 27.04.2022.		
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#### ICS 13.340.20

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# **EUROPEAN STANDARD** NORME EUROPÉENNE **EUROPÄISCHE NORM**

# EN ISO 16321-3

April 2022

ICS 13.340.20

Supersedes EN 166:2001, EN 1731:2006

**English Version** 

# Eye and face protection for occupational use - Part 3: Additional requirements for mesh protectors (ISO 16321-3:2021)

Protection des yeux et du visage à usage professionnel - Partie 3: Exigences complémentaires relatives aux protecteurs grillagés (ISO 16321-3:2021)

Augen- und Gesichtsschutz für berufliche Anwendungen - Teil 3: Zusätzliche Anforderungen an Schutzgeräte aus Gewebe (ISO 16321-3:2021)

This European Standard was approved by CEN on 7 November 2020.

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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

### **European foreword**

This document (EN ISO 16321-3:2022) has been prepared by Technical Committee ISO/TC 94 "Personal safety -- Personal protective equipment" in collaboration with Technical Committee CEN/TC 85 "Eye protective equipment" the secretariat of which is held by AFNOR.

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 October 2022, and conflicting national standards shall be withdrawn at the latest by October 2022.

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 166:2001, EN 1731:2006.

This document has been prepared under a Standardization Request given to CEN by the European Commission and the European Free Trade Association, and supports essential requirements of EU Regulation(s) 2016/425.

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

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.

The following referenced documents are indispensable for the application of this document. For undated references, the latest edition of the referenced document (including any amendments) applies. For dated references, only the edition cited applies. However, for any use of this document 'within the meaning of Annex ZA, the user should always check that any referenced document has not been superseded and that its relevant contents can still be considered the generally acknowledged state-of-art.

When an IEC or ISO standard is referred to in the ISO standard text, this shall be understood as a normative reference to the corresponding EN standard, if available, and otherwise to the dated version of the ISO or IEC standard, as listed below.

NOTE The way in which these referenced documents are cited in normative requirements determines the extent (in whole or in part) to which they apply.

Undated normative references in the ISO standardClause(s) of the ISO standard		Equivalent dated standard	
	EN	ISO or IEC	
ISO 4007	Clause 2 & 3	EN ISO 4007:2018	ISO 4007:2018
ISO 16321-1	Clause 1, 2, 4.1 & 4.6	EN ISO 16321-1:2020	ISO 16321-1:2020
ISO 18526-2	Clause 2	EN ISO 18526-2:2020	ISO 18526-2:2020
ISO 18526-3	Clause 2	EN ISO 18526-3 :2020	ISO 18526-3:2020
ISO 18526-4	Clause 2, 5.3 & 6	EN ISO 18526-4:2020	ISO 18526-4:2020

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

#### **Endorsement notice**

,021 ha. The text of ISO 16321-3:2021 has been approved by CEN as EN ISO 16321-3:2022 without any modification.

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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 <a href="https://www.iso.org/directives">www.iso.org/directives</a>).

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 <a href="https://www.iso.org/patents">www.iso.org/patents</a>).

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.

This document was prepared by ISO/TC 94, *Personal safety* — *Personal protective equipment*, Subcommittee SC 6, *Eye and face protection*, in collaboration with the European Committee for Standardization (CEN) Technical Committee CEN/TC 85, *Eye protective equipment*, in accordance with the Agreement on technical cooperation between ISO and CEN (Vienna Agreement).

A list of all parts in the ISO 16321 series can be found on the ISO website.

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 <u>www.iso.org/members.html</u>.

## Introduction

The family of documents comprised of the ISO 16321 series, the ISO 18526 series and the ISO 18527 series was developed in response to the worldwide stakeholders' demand for minimum requirements and test methods for eye and face protectors traded internationally. ISO 4007 gives the terms and definitions for all the various product types. The test methods are given in the ISO 18526 series, while the requirements for occupational eye and face protectors are given in the ISO 16321 series. Eye for a select. protectors for specific sports are mostly dealt with by the ISO 18527 series. A guidance document, ISO 19734, for the selection, use and maintenance of eye and face protectors is under preparation.

# Eye and face protection for occupational use -

# Part 3: Additional requirements for mesh protectors

### 1 Scope

This document specifies additional performance and marking requirements for mesh protectors designed to provide protection for the eyes and faces of persons against mechanical hazards such as impacts from flying particles and fragments. The other applicable requirements for mesh protectors and the frames/mountings to which they are intended to be fitted are given in ISO 16321-1.

This document also applies to mesh protectors used in educational establishments.

This document also applies to those eye and face protectors used for occupational-type tasks that are performed similarly to an occupation, e.g. "do-it-yourself".

This document is not applicable to protectors for use against liquid splash (including molten metal), hot solid risks, infrared and ultraviolet radiation. For protection against these hazards suitable additional or alternative protectors according ISO 16321-1 will be needed.

This document does not apply to mesh protectors used in sports such as fencing.

#### 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 4007, Personal protective equipment — Eye and face protection — Vocabulary

ISO 16321-1:2021, Eye and face protection for occupational use — Part 1: General requirements

ISO 18526-2:2020, Eye and face protection — Test methods — Part 2: Physical optical properties

ISO 18526-3:2020, Eye and face protection — Test methods — Part 3: Physical and mechanical properties

ISO 18526-4, Eye and face protection — Test methods — Part 4: Headforms

#### 3 Terms and definitions

For the purposes of this document, the terms and definitions given in ISO 4007 apply.

ISO and IEC maintain terminological databases for use in standardization at the following addresses:

- ISO Online browsing platform: available at <a href="https://www.iso.org/obp">https://www.iso.org/obp</a>
- IEC Electropedia: available at <a href="http://www.electropedia.org/">http://www.electropedia.org/</a>