NSAI Standards

Irish Standard
I.S. EN ISO 18526-3:2020

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

I.S. EN ISO 18526-3:2020

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This document is based on:	*Published:*
EN ISO 18526-3:2020	2020-01-29

This document was published under the authority of the NSAI and comes into effect on:	ICS number:
2020-02-16	13.340.20
	NOTE: If blank see CEN/CENELEC cover page

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National Foreword

I.S. EN ISO 18526-3:2020 is the adopted Irish version of the European Document EN ISO 18526-3:2020, Eye and face protection - Test methods - Part 3: Physical and mechanical properties (ISO 18526-3:2020)

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EUROPEAN STANDARD

NORME EUROPÉENNE

EUROPÄISCHE NORM

EN ISO 18526-3

January 2020

ICS 13.340.20

English Version

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

Protection des yeux et du visage - Méthodes d'essai - Partie 3: Propriétés physiques et mécaniques (ISO 18526-3:2020)

Augen- und Gesichtsschutz - Prüfverfahren - Teil 3: Physikalische und mechanische Eigenschaften (ISO 18526-3:2020)

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

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

CEN-CENELEC Management Centre: Rue de la Science 23, B-1040 Brussels

Ref. No. EN ISO 18526-3:2020 E

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European foreword

This document (EN ISO 18526-3:2020) 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of an identical text or by endorsement, at the latest by July 2020, and conflicting national standards shall be withdrawn at the latest by July 2020.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.

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

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The text of ISO 18526-3:2020 has been approved by CEN as EN ISO 18526-3:2020 without any modification.

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INTERNATIONAL STANDARD

ISO 18526-3

First edition
2020-01

Eye and face protection — Test methods —

Part 3: Physical and mechanical properties

Protection des yeux et du visage — Méthodes d'essai —

Partie 3: Propriétés physiques et mécaniques

Reference number
ISO 18526-3:2020(E)

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Published in Switzerland

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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.

This document was prepared by ISO/TC 94, *Personal safety — Personal protective equipment*, Subcommittee SC 6, *Eye and face protection*.

This first edition of ISO 18526-3:2019 cancels and replaces ISO 4855:1981, which has been technically revised.

A list of all parts in the ISO 18526 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 www.iso.org/members.html.

Introduction

This family of documents 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 in the ISO 18526 series, while the requirements for occupational eye and face protectors are in the ISO 16321 series. Eye protection for specific sports is mostly dealt with by the ISO 18527 series. A guidance document, ISO 19734[1)], for the selection, use and maintenance of eye and face protectors is in preparation.

1) Under preparation. Stage at the time of publication: ISO/CD 19734:2020.

Eye and face protection — Test methods —

Part 3: Physical and mechanical properties

1 Scope

This document specifies the reference test methods for determining the physical and mechanical properties of eye and face protectors.

This document does not apply to any eye and face protection products for which the requirements standard(s) specifies other test methods.

Other test methods can be used if shown to be equivalent and include uncertainties of measurement no greater than those required of the reference method.

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 48-2, *Rubber, vulcanized or thermoplastic — Determination of hardness — Part 2: Hardness between 10 IRHD and 100 IRHD*

ISO 4007, *Personal protective equipment — Eye and face protection — Vocabulary*

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

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

ISO 18527-2, *Eye and face protection for sports use — Part 2: Requirements for eye protectors for Squash and eye protectors for Racquetball and Squash 57*

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 https://www.iso.org/obp

— IEC Electropedia: available at http://www.electropedia.org/

4 Preparatory information

Before testing, refer to the product's requirement standard for the information needed to apply the tests in this document, for example:

— the number of test samples[2)];

2) For the purpose of this document, “test sample” is taken to be the object under test, e.g. “lens”, “filter”, or "complete protector" as specified in the product's requirements standard.