

ILNAS

Institut luxembourgeois de la normalisation
de l'accréditation, de la sécurité et qualité
des produits et services

ILNAS-EN ISO 16321-1:2022

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

Protection des yeux et du visage à usage
professionnel - Partie 1 : Exigences
générales (ISO 16321-1:2021)

Augen- und Gesichtsschutz für berufliche
Anwendungen - Teil 1: Allgemeine
Anforderungen (ISO 16321-1:2021)

04/2022



National Foreword

This European Standard EN ISO 16321-1:2022 was adopted as Luxembourgish Standard ILNAS-EN ISO 16321-1:2022.

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ILNAS-EN ISO 16321-1:2022

EUROPEAN STANDARD **EN ISO 16321-1**

NORME EUROPÉENNE

EUROPÄISCHE NORM

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ICS 13.340.20

Supersedes EN 166:2001, EN 169:2002, EN 170:2002,
EN 171:2002, EN 172:1994, EN 379:2003+A1:2009

English Version

**Eye and face protection for occupational use - Part 1:
General requirements (ISO 16321-1:2021)**

Protection des yeux et du visage à usage professionnel
- Partie 1: Exigences générales (ISO 16321-1:2021)

Augen- und Gesichtsschutz für berufliche
Anwendungen - Teil 1: Allgemeine Anforderungen (ISO
16321-1:2021)

This European Standard was approved by CEN on 6 November 2020.

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

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

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European foreword

This document (EN ISO 16321-1:2022) 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 April 2025.

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 169:2002, EN 170:2002, EN 171:2002, EN 172:1994, EN 379:2003+A1:2009.

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 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 standard | Clause(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 11664-1 | Clause 2 & 4.3.1.1 | EN ISO 11664-1:2011 | ISO 11664-1:2007 |
| ISO 11664-2 | Clause 2 & 4.3.1.1 | EN ISO 11664-2:2011 | ISO 11664-2:2007 |
| ISO 16321-1 | Clause 1, 2, & 4.1 | EN ISO 16321-1:2020 | ISO 16321-1:2020 |
| ISO 18526-1 | Clause 2 | EN ISO 18526-1:2020 | ISO 18526-1:2020 |
| ISO 18526-2 | Clause 2 | EN ISO 18526-2:2020 | ISO 18526-2:2020 |

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|-------------|-------------------|----------------------|----------------------|
| ISO 18526-3 | Clause 2 | EN ISO 18526-3 :2020 | ISO 18526-3:2020 |
| ISO 18526-4 | Clause 2, 6.3 & 7 | EN ISO 18526-4 :2020 | EN 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

The text of ISO 16321-1:2021 has been approved by CEN as EN ISO 16321-1:2022 without any modification.

Annex ZA (informative)

Relationship between this European Standard and the essential requirements of Regulation 2016/425 aimed to be covered

This European Standard has been prepared under a Commission's standardization request M/571 to provide one voluntary means of conforming to requirements of Regulation 2016/425.

Once this standard is cited in the Official Journal of the European Union under that Regulation 2016/425 compliance with the normative clauses of this standard given in Table ZA.1 confers, within the limits of the scope of this standard, a presumption of conformity with the corresponding [essential] requirements of that Regulation 2016/425 and associated EFTA regulations.

Table ZA.1 — Correspondence between this European Standard and Annex II of Regulation 2016/425

| Essential Requirements of Regulation | Clause(s)/sub-clause(s) of this EN | Remarks/Notes |
|---|--|---------------|
| 1.1.1 Ergonomics | 4.3; 7.2 | |
| 1.1.2 Level and classes of protection | 6.2; 6.3.1; 6.3.2; 6.3.3; 6.3.4; 6.6; ; 7.1; 7.4; 7.10; 7.11; 7.14; 7.15; 7.16; 7.17; 7.18; 7.19; 7.20; 7.21 | |
| 1.2.1 Absence of risks and other 'inherent' nuisance factors | 5.2, 6.1 | |
| 1.2.1.1 Suitable constituent materials | 4.2 | |
| 1.2.1.2 Satisfactory surface condition of all PPE parts in contact with the user. | 4.3 | |
| 1.2.1.3 Maximum permissible user impediment | 5.1; 5.2; 5.3; 5.5; 6.1; 6.5; 6.7; 7.3 | |
| 1.3.1 Adaptation of PPE to user morphology | 4.3; 4.5; 5.1; 7.2 | |
| 1.3.2 Lightness and design strength | 4.1; 7.4; 7.5; 7.6; 7.7; 7.8, 7.12 | |
| 1.4 Manufacturer's instructions and information | 9 | |
| 2.2 PPE "enclosing" the parts of the body to be protected | 7.9; 7.13 | |
| 2.3 PPE for the face, eyes and respiratory system | 4.3; 5; 6.1; 6.5; 6.7; 7.9; 7.13 | |
| 2.9 PPE incorporating components which can be adjusted or removed by the use | 4.3 | |

| | | |
|---|--|--|
| 2.12 PPE bearing one or more identification markings or indicators directly or indirectly relating to health and safety | 8 | |
| 2.14 "Multi risk" PPE | 6; 7 | This standard describes multiple types of risks. The EHSR is covered by the appropriate combination of requirements, associated with the risks corresponding to the intended use of the eye/face protector |
| 3.1.1 Impact caused by falling or ejected objects and collision of parts of the body with obstacle | 7.1; 7.4; 7.9; 7.10; 7.11 | This standard does not cover requirements concerning prevention of injuries caused by collision of the face with obstacles. |
| 3.6.1 PPE constituent materials and other components | 6.3.2; 6.6; 7.5; 7.14; 7.19; 7.4; 7.10.2; 7.11.2 | |
| 3.6.2 Complete PPE ready for use | 7.19; 6.3.2 | |
| 3.9.1 Non-ionising radiation | 6; 7.1; 8; 9 | |
| 3.10.2 Protection against cutaneous and ocular contact | 7.15; 7.16; 7.17; 7.18; 7.20 | |

WARNING 1 — Presumption of conformity stays valid only as long as a reference to this European Standard is maintained in the list published in the Official Journal of the European Union. Users of this standard should consult frequently the latest list published in the Official Journal of the European Union.

WARNING 2 — Other Union legislation may be applicable to the product(s) falling within the scope of this standard.