ILNAS

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

ILNAS-EN ISO 12870:2012

Ophthalmic optics - Spectacle frames - Requirements and test methods (ISO 12870:2012)

Augenoptik - Brillenfassungen - Anforderungen und Prüfverfahren (ISO 12870:2012)

Optique ophtalmique - Montures de lunettes - Exigences et méthodes d'essai (ISO 12870:2012)

04/2012

National Foreword

This European Standard EN ISO 12870:2012 was adopted as Luxembourgish Standard ILNAS-EN ISO 12870:2012.

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- Participate in the design of standards
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EUROPEAN STANDARD
NORME EUROPÉENNE
EUROPÄISCHE NORM

EN ISO 12870

April 2012

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Supersedes EN ISO 12870:2009

English Version

Ophthalmic optics - Spectacle frames - Requirements and test methods (ISO 12870:2012)

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This European Standard was approved by CEN on 23 March 2012.

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.

CEN members are the national standards bodies of 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, Romania, Slovakia, Slovenia, Spain, Sweden, Switzerland, Turkey and United Kingdom.

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

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Foreword

This document (EN ISO 12870:2012) has been prepared by Technical Committee ISO/TC 172 "Optics and photonics" in collaboration with Technical Committee CEN/TC 170 “Ophthalmic optics” 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 October 2012, and conflicting national standards shall be withdrawn at the latest by October 2012.

Attention is drawn to the possibility that some of the elements of this document may be the subject of patent rights. CEN [and/or CENELEC] shall not be held responsible for identifying any or all such patent rights.

This document supersedes EN ISO 12870:2009.

This document has been prepared under a mandate given to CEN by the European Commission and the European Free Trade Association, and supports essential requirements of EU Directive.

For relationship with EU Directive, see informative Annex ZA, which is an integral part of this document.

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, Romania, Slovakia, Slovenia, Spain, Sweden, Switzerland, Turkey and the United Kingdom.

Endorsement notice

The text of ISO 12870:2012 has been approved by CEN as a EN ISO 12870:2012 without any modification.

Annex ZA
(informative)

Relationship between this European Standard and the Essential Requirements of EC Directive 93/42/EEC

This European Standard has been prepared under a mandate given to CEN by the European Commission and the European Free Trade Association to provide a means of conforming to Essential Requirements of the New Approach Directive 93/42/EEC on medical devices.

Once this standard is cited in the Official Journal of the European Union under that Directive and has been implemented as a national standard in at least one Member State, compliance with the 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 Directive and associated EFTA regulations.

Table ZA.1 — Correspondence between this European Standard and Directive 93/42/EEC

Clauses/subclauses of this European Standard	Essential Requirements (ERs) of Directive 93/42/EEC	Qualifying remarks/notes
4.1, 4.2, 4.5, 4.6, 4,7, 4.8, 4.9, 9, 10	1	The requirements declared as optional in Table 1, but cited in the list given in footnote [a], only provide presumption of conformity to their corresponding Essential Requirements if they are complied with. See below in the present table.
4.1, 4.2, 4.5, 4.6, 4,7, 4.8, 4.9, 9, 10	2	The requirements declared as optional in Table 1, but cited in the list given in footnote [a], only provide presumption of conformity to their corresponding Essential Requirements if they are complied with. See below in the present table.
4	3	Testing in accordance with Clauses 5, 6, 7 and 8.
4.6 to 4.9	4	Testing in accordance with 8.2 to 8.6.
4.2.1, 4.2.2, 4.2.3	6	Testing in accordance with 8.8. The requirement of 4.2.3 (i.e. 0,5 µg/cm^2/week) is the requirement set forth by Directive 94/27/EEC. The test in 8.8 makes reference to EN 16128 and EN 12472. See also explanations in Annex D.
4.2.4	6 a)	—
4.2.1, 4.2.2, 4.2.3	7.1	Testing in accordance with 8.8. The requirement of 4.2.3 (i.e. 0,5 µg/cm^2/week) is the requirement set forth by Directive 94/27/EEC. The test in 8.8 makes reference to EN 16128 and EN 12472. See also explanations in Annex D.
4.6 to 4.9	7.1	Testing in accordance with 8.2 to 8.6.

Table ZA.1 *(end)*

Clauses/subclauses of this European Standard	Essential Requirements (ERs) of Directive 93/42/EEC	Qualifying remarks/notes
4.2.1, 4.2.2, 4.2.3	7.2	Testing in accordance with 8.8. The requirement of 4.2.3 (i.e. 0,5 µg/cm^2/week) is the requirement set forth by Directive 94/27/EEC. The test in 8.8 makes reference to EN 16128 and EN 12472. See also explanations in Annex D.
4.6 to 4.9	7.3	Testing in accordance with 8.2 to 8.6.
4.2.2, 4.2.3	7.5	Testing in accordance with 8.8. Essential Requirement 7.5 is only partly addressed in ISO 12870. To the extent that it is covered in ISO 12870, testing is carried out in accordance with 8.8. The requirement of 4.2.3 (i.e. 0,5 µg/cm^2/week) is the requirement set forth by Directive 94/27/EEC. The test in 8.8 makes reference to EN 16128 and EN 12472. See also explanations in Annex D.
4.8	9.1	Testing in accordance with 8.4 and 8.5.
4.9	9.3	Testing in accordance with 8.6.
9, 10	13.1	—
9, 10	13.3	The statement in 10.4 is true for the countries of the Community [cf. ER 13.3 a)].

WARNING — Other requirements and other EU Directives may be applicable to the product(s) falling within the scope of this standard.

INTERNATIONAL STANDARD

ISO 12870

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Ophthalmic optics — Spectacle frames — Requirements and test methods

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