



SLOVENSKI STANDARD SIST EN ISO 8980-5:2005

01-december-2005

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Ophthalmic optics - Uncut finished spectacle lenses - Part 5: Minimum requirements for
spectacle lens surfaces claimed to be abrasion-resistant (ISO 8980-5:2005)

Augenoptik - Rohkantige fertige Brillengläser - Teil 5: Mindestanforderungen an die
Oberflächen abriebfester Brillengläser (ISO 8980-5:2005)

Optique ophtalmique - Verres de lunettes finis non détourés - Partie 5: Exigences
minimales pour les surfaces de verres de lunettes déclarées etre résistantes a l'abrasion
(ISO 8980-5:2005)

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Ta slovenski standard je istoveten z: **EN ISO 8980-5:2005**

ICS:

11.040.70 Oftalmološka oprema Ophthalmic equipment

SIST EN ISO 8980-5:2005

en,fr,de

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EUROPEAN STANDARD
NORME EUROPÉENNE
EUROPÄISCHE NORM

EN ISO 8980-5

August 2005

ICS 11.040.70

English Version

**Ophthalmic optics - Uncut finished spectacle lenses - Part 5:
Minimum requirements for spectacle lens surfaces claimed to be
abrasion-resistant (ISO 8980-5:2005)**

Optique ophtalmique - Verres de lunettes finis non détournés
- Partie 5: Exigences minimales pour les surfaces de verres
de lunettes déclarées être résistantes à l'abrasion (ISO
8980-5:2005)

Augenoptik - Rohkantige fertige Brillengläser - Teil 5:
Mindestanforderungen an die Oberflächen abriebfester
Brillengläser (ISO 8980-5:2005)

This European Standard was approved by CEN on 22 July 2005.

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 Central Secretariat 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 Central Secretariat has the same status as the official versions.

CEN members are the national standards bodies of Austria, Belgium, Cyprus, Czech Republic, Denmark, Estonia, Finland, France, Germany, Greece, Hungary, Iceland, Ireland, Italy, Latvia, Lithuania, Luxembourg, Malta, Netherlands, Norway, Poland, Portugal, Slovakia, Slovenia, Spain, Sweden, Switzerland and United Kingdom.



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

Management Centre: rue de Stassart, 36 B-1050 Brussels

EN ISO 8980-5:2005 (E)**Foreword**

This document (EN ISO 8980-5:2005) has been prepared by Technical Committee ISO/TC 172 "Optics and optical instruments" 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 February 2006, and conflicting national standards shall be withdrawn at the latest by February 2006.

According to the CEN/CENELEC Internal Regulations, the national standards organizations of the following countries are bound to implement this European Standard: Austria, Belgium, Cyprus, Czech Republic, Denmark, Estonia, Finland, France, Germany, Greece, Hungary, Iceland, Ireland, Italy, Latvia, Lithuania, Luxembourg, Malta, Netherlands, Norway, Poland, Portugal, Slovakia, Slovenia, Spain, Sweden, Switzerland and United Kingdom.

Endorsement notice

The text of ISO 8980-5:2005 has been approved by CEN as EN ISO 8980-5:2005 without any modifications.

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INTERNATIONAL
STANDARD

ISO
8980-5

First edition
2005-08-01

**Ophthalmic optics — Uncut finished
spectacle lenses —**

Part 5:

**Minimum requirements for spectacle lens
surfaces claimed to be abrasion-resistant**

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Optique ophtalmique — Verres de lunettes finis non détournés —

*Partie 5. Exigences minimales pour les surfaces de verres de lunettes
déclarées être résistantes à l'abrasion*

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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.

International Standards are drafted in accordance with the rules given in the ISO/IEC Directives, Part 2.

The main task of technical committees is to prepare International Standards. Draft International Standards adopted by the technical committees are circulated to the member bodies for voting. Publication as an International Standard requires approval by at least 75 % of the member bodies casting a vote.

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.

ISO 8980-5 was prepared by Technical Committee ISO/TC 172, *Optics and photonics*, Subcommittee SC 7, *Ophthalmic optics and instruments*.

ISO 8980 consists of the following parts, under the general title *Ophthalmic optics — Uncut finished spectacle lenses*:

- *Part 1: Specifications for single-vision and multifocal lenses*
- *Part 2: Specifications for progressive power lenses*
- *Part 3: Transmittance specifications and test methods*
- *Part 4: Specifications and test methods for anti-reflective coatings*
- *Part 5: Minimum requirements for spectacle lens surfaces claimed to be abrasion-resistant*

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Ophthalmic optics — Uncut finished spectacle lenses —

Part 5: Minimum requirements for spectacle lens surfaces claimed to be abrasion-resistant

1 Scope

This part of ISO 8980 specifies the requirement and test method for spectacle lens surfaces that are claimed to provide a basic level of abrasion resistance including those with coatings.

A lens claimed to be abrasion-resistant shall meet the requirements on both front and back surfaces.

Lens powers and surface form is restricted for testing, however test results are applicable to claims for lenses and lens surfaces with identical properties other than the lens power or surface radius.

This part of ISO 8980 does not attempt to define the properties of lens surfaces with abrasion resistance better than the following defined criteria.

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2 Normative references

The following referenced documents are indispensable for the application 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, *Rubber, vulcanized or thermoplastic — Determination of hardness (hardness between 10 IRHD and 100 IRHD)*

ISO 13666, *Ophthalmic optics — Spectacle lenses — Vocabulary*

ISO 8980-4, *Ophthalmic optics — Uncut finished spectacle lenses — Part 4: Specifications and test methods for anti-reflective coatings*

3 Terms and definitions

For the purposes of this document, the terms and definitions given in ISO 13666 and in ISO 8980-4 and the following apply.

3.1

abrasion resistance

property of a spectacle lens surface to resist damage during normal use such as scratches caused by cleaning or wear