



SLOVENSKI STANDARD SIST EN ISO 9342-2:2006

01-februar-2006

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Optics and optical instruments - Test lenses for calibration of focimeters - Part 2: Test lenses for focimeters used for measuring contact lenses (ISO 9342-2:2005)

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Optik und optische Instrumente - (Prüfgläser zur Kalibrierung von Scheitelbrechwert-Messgeräten - Teil 2: Prüfgläser für Scheitelbrechwert-Messgeräte für die Messung von Kontaktlinsen (ISO 9342-2:2005) [SIST EN ISO 9342-2:2006](#)

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Optique et instruments optiques - Verres étalons pour l'étalonnage des frontofocometres - Partie 2: Verres étalons pour frontofocometres pour le mesurage des lentilles de contact (ISO 9342-2:2005)

Ta slovenski standard je istoveten z: EN ISO 9342-2:2005

ICS:

11.040.70 Oftalmološka oprema Ophthalmic equipment

SIST EN ISO 9342-2:2006 en

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EUROPEAN STANDARD
NORME EUROPÉENNE
EUROPÄISCHE NORM

EN ISO 9342-2

November 2005

ICS 11.040.70

Supersedes EN ISO 9342:1998

English Version

**Optics and optical instruments - Test lenses for calibration of
focimeters - Part 2: Test lenses for focimeters used for
measuring contact lenses (ISO 9342-2:2005)**

Optique et instruments optiques - Verres étalons pour
l'étalonnage des frontofocomètres - Partie 2: Verres étalons
pour frontofocomètres pour le mesurage des lentilles de
contact (ISO 9342-2:2005)

Optik und optische Instrumente - Prüfgläser zur
Kalibrierung von Scheitelbrechwert-Messgeräten - Teil 2:
Prüfgläser für Scheitelbrechwert-Messgeräte für die
Messung von Kontaktlinsen (ISO 9342-2:2005)

This European Standard was approved by CEN on 14 November 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.

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

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EN ISO 9342-2:2005 (E)**Foreword**

This document (EN ISO 9342-2:2005) 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 May 2006, and conflicting national standards shall be withdrawn at the latest by May 2006.

This document supersedes EN ISO 9342:1998.

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 9342-2:2005 has been approved by CEN as EN ISO 9342-2:2005 without any modifications.

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INTERNATIONAL STANDARD

ISO
9342-2

First edition
2005-11-15

Optics and optical instruments — Test lenses for calibration of focimeters —

Part 2:

Test lenses for focimeters used for measuring contact lenses

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*Optique et instruments optiques — Verres étalons pour l'étalonnage
des frontofocomètres —*

*Partie 2: Verres étalons pour frontofocomètres pour le mesurage des
lentilles de contact*

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Reference number
ISO 9342-2:2005(E)

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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 9342-2 was prepared by Technical Committee ISO/TC 172, *Optics and photonics*, Subcommittee SC 7, *Ophthalmic optics and instruments*.

ISO 9342 consists of the following parts, under the general title *Optics and optical instruments — Test lenses for calibration of focimeters*:

— Part 1: *Test lenses for focimeters used for measuring spectacle lenses*

— Part 2: *Test lenses for focimeters used for measuring contact lenses*

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Optics and optical instruments — Test lenses for calibration of focimeters —

Part 2: Test lenses for focimeters used for measuring contact lenses

1 Scope

This part of ISO 9342 specifies requirements for test lenses for focimeters that are used to measure contact lenses. These test lenses are used to find the precise correction values that are needed to convert the power values measured to back vertex power values, as defined in Clause 3.

This part of ISO 9342 applies to focimeters meeting the requirements of ISO 8598.

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 7944:1998, *Optics and optical instruments — Reference wavelengths*
 ISO 8598:1996, *Optics and optical instruments — Focimeters*

3 Terms and definitions

For the purpose of this document, the following terms and definitions apply.

3.1

back vertex power

F_{bv}

reciprocal of the paraxial value of the back vertex focal length, measured in metres

NOTE 1 The unit for expressing vertex power is the reciprocal metre (m^{-1}). The name for this unit is “dioptré”, and the symbol is D.

NOTE 2 Conventionally, the back vertex power is specified as the “power” of a contact lens.

3.2

spherical test lenses

test lenses having spherical front and back surfaces so that their back vertex power may be expressed by a single value

3.3

reference wavelength

wavelengths specified in ISO 7944

NOTE For the purpose of this part of ISO 9342, the reference wavelength can be either the green mercury line ($\lambda_e = 546,07$ nm) or the yellow helium line ($\lambda_d = 587,56$ nm).