



**SLOVENSKI STANDARD
SIST EN ISO 9342-1:2005**

01-julij-2005

**BUXca Yý U
SIST EN ISO 9342:2000**

Cdñ_U]b`cdñ b]`bgnfi a Ybñ`!`DfYg_i gbY`Y Y`nU`i a Yf`Ub`Y`Z`_ca Yf`cj `E`%`XY.
DfYg_i gbY`Y Y`nU`Z`_ca Yf`Yž`_j`gY`i dcfUV`U`c`nU`a Yf`Yb`Y`gdY`_f`U`b`]` `Y` `f`GC
- ' (&!%&\$ \$) Ł

Optics and optical instruments - Test lenses for calibration of focimeters - Part 1: Test lenses for focimeters used for measuring spectacle lenses (ISO 9342-1:2005)

(standards.iteh.ai)

Optik und optische Instrumente - Prüfgläser zur Kalibrierung von Scheitelbrechwert-Messgeräten - Teil 1: Prüfgläser für Scheitelbrechwert-Messgeräte für die Messung von Brillengläsern (ISO 9342-1:2005)

Optique et instruments d'optique - Verres étalons pour l'étalonnage des frontofocomètres - Partie 1: Verres étalons pour frontofocomètres pour le mesurage des verres de lunettes (ISO 9342-1:2005)

Ta slovenski standard je istoveten z: EN ISO 9342-1:2005

ICS:

11.040.70 Oftalmološka oprema Ophthalmic equipment

SIST EN ISO 9342-1:2005 en

iTeh STANDARD PREVIEW
(standards.iteh.ai)

SIST EN ISO 9342-1:2005

<https://standards.iteh.ai/catalog/standards/sist/bd6f8a45-d245-4a3b-9b67-d067295fc9c5/sist-en-iso-9342-1-2005>

EUROPEAN STANDARD
NORME EUROPÉENNE
EUROPÄISCHE NORM

EN ISO 9342-1

May 2005

ICS 11.040.70

Supersedes EN ISO 9342:1998

English version

**Optics and optical instruments - Test lenses for calibration of
focimeters - Part 1: Test lenses for focimeters used for
measuring spectacle lenses (ISO 9342-1:2005)**

Optique et instruments d'optique - Verres étalons pour
l'étalonnage des frontofocomètres - Partie 1: Verres
étalons pour frontofocomètres pour le mesurage des verres
de lunettes (ISO 9342-1:2005)

Optik und optische Instrumente - Prüfgläser zur
Kalibrierung von Scheitelbrechwert-Messgeräten - Teil 1:
Prüfgläser für Scheitelbrechwert-Messgeräte für die
Messung von Brillengläsern (ISO 9342-1:2005)

This European Standard was approved by CEN on 4 April 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 9342-1:2005 (E)**Foreword**

This document (EN ISO 9342-1:2005) 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 November 2005, and conflicting national standards shall be withdrawn at the latest by November 2005.

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 9342-1:2005 has been approved by CEN as EN ISO 9342-1:2005 without any modifications.

(standards.iteh.ai)

[SIST EN ISO 9342-1:2005](https://standards.iteh.ai/catalog/standards/sist/bd6f8a45-d245-4a3b-9b67-d067295fc9c5/sist-en-iso-9342-1-2005)

<https://standards.iteh.ai/catalog/standards/sist/bd6f8a45-d245-4a3b-9b67-d067295fc9c5/sist-en-iso-9342-1-2005>

INTERNATIONAL
STANDARD

ISO
9342-1

First edition
2005-05-01

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

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

iTeh STANDARD PREVIEW
(standards.iteh.ai)

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

*Partie 1: Verres étalons pour frontofocomètres pour le mesurage des
verres de lunettes*

<https://standards.iteh.ai/catalog/standards/sist/bd6f8a45-d245-4a3b-9b67-d067295fc9c5/sist-en-iso-9342-1-2005>



Reference number
ISO 9342-1:2005(E)

© ISO 2005

ISO 9342-1:2005(E)**PDF disclaimer**

This PDF file may contain embedded typefaces. In accordance with Adobe's licensing policy, this file may be printed or viewed but shall not be edited unless the typefaces which are embedded are licensed to and installed on the computer performing the editing. In downloading this file, parties accept therein the responsibility of not infringing Adobe's licensing policy. The ISO Central Secretariat accepts no liability in this area.

Adobe is a trademark of Adobe Systems Incorporated.

Details of the software products used to create this PDF file can be found in the General Info relative to the file; the PDF-creation parameters were optimized for printing. Every care has been taken to ensure that the file is suitable for use by ISO member bodies. In the unlikely event that a problem relating to it is found, please inform the Central Secretariat at the address given below.

iTeh STANDARD PREVIEW (standards.iteh.ai)

[SIST EN ISO 9342-1:2005](https://standards.iteh.ai/catalog/standards/sist/bd6f8a45-d245-4a3b-9b67-d067295fc9c5/sist-en-iso-9342-1-2005)

<https://standards.iteh.ai/catalog/standards/sist/bd6f8a45-d245-4a3b-9b67-d067295fc9c5/sist-en-iso-9342-1-2005>

© ISO 2005

All rights reserved. Unless otherwise specified, no part of this publication may be reproduced or utilized in any form or by any means, electronic or mechanical, including photocopying and microfilm, without permission in writing from either ISO at the address below or ISO's member body in the country of the requester.

ISO copyright office
Case postale 56 • CH-1211 Geneva 20
Tel. + 41 22 749 01 11
Fax + 41 22 749 09 47
E-mail copyright@iso.org
Web www.iso.org

Published in Switzerland

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 9342-1 was prepared by Technical Committee ISO/TC 172, *Optics and photonics*, Subcommittee SC 7, *Ophthalmic optics and instruments*.

This first edition cancels and replaces ISO 9342:1996, of which Clause 1 and Clauses A.5 to A.7 have been technically revised.

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*

iTeh STANDARD PREVIEW
(standards.iteh.ai)

[SIST EN ISO 9342-1:2005](https://standards.iteh.ai/catalog/standards/sist/bd6f8a45-d245-4a3b-9b67-d067295fc9c5/sist-en-iso-9342-1-2005)

<https://standards.iteh.ai/catalog/standards/sist/bd6f8a45-d245-4a3b-9b67-d067295fc9c5/sist-en-iso-9342-1-2005>

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

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

1 Scope

This part of ISO 9342 specifies requirements for test lenses for the calibration of focimeters that are used for the measurement of spectacle form lenses.

NOTE It is accepted that other test lenses can also be used with powers within the given range, manufactured to the same standard of accuracy and form, but different back vertex powers. However, only lenses with integer nominal powers, as described in Annex A, can be used for the calibration of digitally-rounding focimeters.

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, *Optics and optical instruments — Reference wavelengths*

3 Terms and definitions

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

3.1

spherical test lenses

lenses used for the calibration of the dioptric power measurements by focimeters, in which the power of each lens is expressed as its back vertex power in dioptres (D)

3.2

prismatic test lenses

lenses used for the calibration of the prismatic deviation measurements by focimeters, in which the prismatic power of each lens is expressed in centimetres deviation per metre distance (cm/m)

NOTE The special name for the unit for expressing prismatic power is the “prism dioptre” for which the symbol “Δ” is used.

3.3

cylindrical test lenses

lenses with cylindrical faces which are used to calibrate the axis marker and axis indicator with respect to the adjustment orientation of the rail

NOTE These lenses are usually specially designed and marked.