



SLOVENSKI STANDARD
SIST EN ISO 9338:2000

01-januar-2000

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Optics and optical instruments - Contact lenses - Determination of the diameters (ISO 9338:1996)

Optik und optische Instrumente - Kontaktlinsen - Bestimmung der Durchmesser (ISO 9338:1996)

iTeh STANDARD PREVIEW
(standards.iteh.ai)

Optique et instruments d'optique - Lentilles de contact - Détermination des diamètres (ISO 9338:1996)

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Ta slovenski standard je istoveten z: EN ISO 9338:1998

ICS:

11.040.70 Oftalmološka oprema Ophthalmic equipment

SIST EN ISO 9338:2000

en

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EUROPEAN STANDARD
NORME EUROPÉENNE
EUROPÄISCHE NORM

EN ISO 9338

July 1998

ICS 11.040.70

Descriptors: see ISO document

English version

Optics and optical instruments - Contact lenses - Determination
of the diameters (ISO 9338:1996)

Optique et instruments d'optique - Lentilles de contact -
Détermination des diamètres (ISO 9338:1996)

Optik und optische Instrumente - Kontaktlinsen -
Bestimmung der Durchmesser (ISO 9338:1996)

This European Standard was approved by CEN on 22 June 1998.

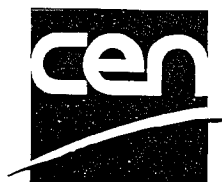
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This European Standard exists in three official versions (English, French, German). A version in any other language made by translation under the responsibility of a CEN member into its own language and notified to the Central Secretariat has the same status as the official versions.

CEN members are the national standards bodies of Austria, Belgium, Czech Republic, Denmark, Finland, France, Germany, Greece, Iceland, Ireland, Italy, Luxembourg, Netherlands, Norway, Portugal, Spain, Sweden, Switzerland and United Kingdom.

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

Central Secretariat: rue de Stassart, 36 B-1050 Brussels

Foreword

The text of the International Standard from Technical Committee ISO/TC 172 "Optics and optical instruments" of the International Organization for Standardization (ISO) has been taken over as an European Standard by 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 January 1999, and conflicting national standards shall be withdrawn at the latest by January 1999.

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

Endorsement notice

The text of the International Standard ISO 9338:1996 has been approved by CEN as a European Standard without any modification.

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INTERNATIONAL STANDARD

ISO
9338

First edition
1996-10-15

Optics and optical instruments — Contact lenses — Determination of the diameters

iTeh STANDARD PREVIEW

(Standard from iTeh)
*Optique et instruments d'optique — Lentilles de contact — Détermination
des diamètres*

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Reference number
ISO 9338:1996(E)

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.

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.

International Standard ISO 9338 was prepared by Technical Committee ISO/TC 172, *Optics and optical instruments*, Subcommittee SC 7, *Ophthalmic optics and instruments*.

Annex A forms an integral part of ISO 9338. Annex B is for information only.

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Optics and optical instruments — Contact lenses — Determination of the diameters

1 Scope

This International Standard describes methods for the determination of contact lens diameters.

Annex A describes a projection method which is suitable for both soft and rigid contact lenses. Annex B describes a method which is suitable only for rigid contact lenses.

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2 Normative references

The following standards contain provisions which, through reference in this text, constitute provisions of this International Standard. At the time of publication, the edition indicated was valid. All standards are subject to revision, and parties to agreements based on this International Standard are encouraged to investigate the possibility of applying the most recent editions of the standards indicated below. Members of IEC and ISO maintain registers of currently valid International Standards.

ISO 8320:1986, *Optics and optical instruments — Contact lenses — Vocabulary and symbols*.

ISO 10344:1996, *Optics and optical instruments — Contact lenses — Saline solution for contact lens testing*.

BS 3625:1963 (1994), *Specification for eyepiece and screen graticules for the determination of the particle size of powders*.

BS 3406 Part 4:1993, *Methods for determination of particle size distribution — Guide to microscope and image analysis methods*.

3 Definitions

For the purposes of this International Standard, the definitions given in ISO 8320 apply.

4 Requirements

4.1 Measuring precision

The minimum reproducibility shall be $\pm 0,05$ mm.

4.2 Measuring temperature

The measurements shall be done at a temperature in the range of 18 °C to 35 °C. The chosen measuring temperature shall be stated in the test report.

5 Test report

The test report shall contain at least the following information:

- a) the identification of the contact lens tested;
- b) a reference to this International Standard;
- c) the measuring temperature;
- d) the diameter of the contact lens;
- e) the date of the measurements.

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Annex A (normative)

Determination of diameter of a contact lens using the projection method

A.1 Principle

The diameter of the lens is determined from an enlarged projection of the lens on a screen in comparison with a calibrated scale.

A.2 Apparatus and reagents

A.2.1 Projection system

The projection system, as shown in figure A.1 shall be capable of measuring to $\pm 0,05$ mm over a range of 0 mm to 17 mm.

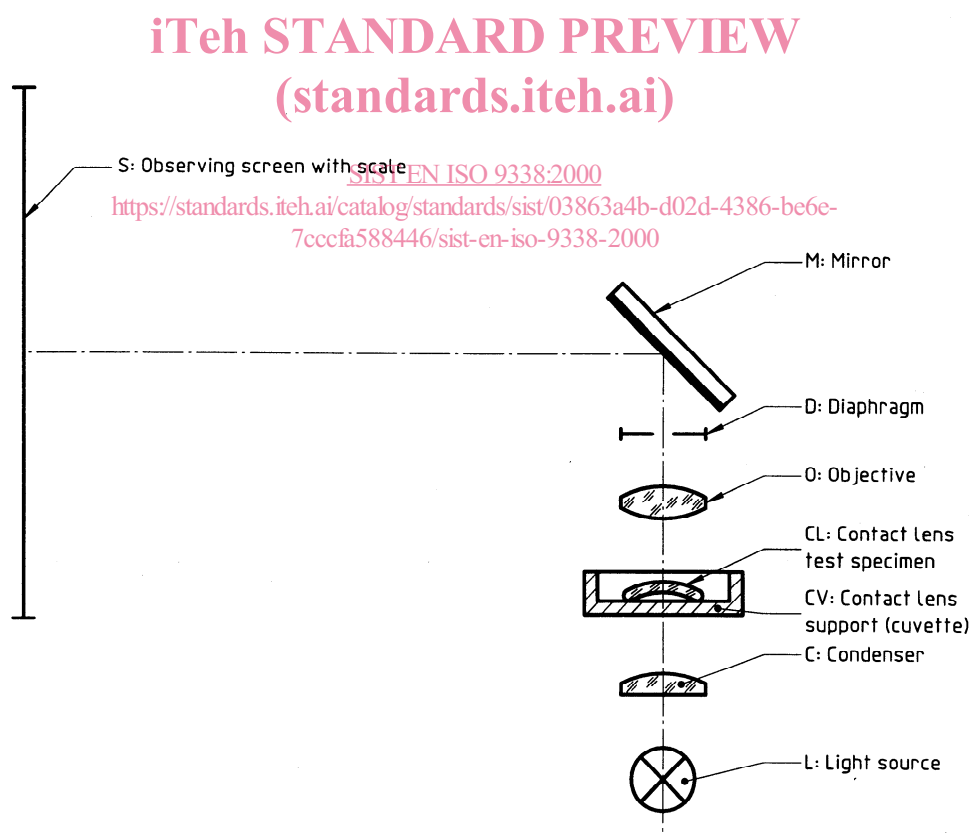


Figure A.1 — Principle of the apparatus

The contact lens support CV is placed horizontally and can be adjusted vertically. The scale of the screen S represents a linear magnification of at least $\times 15$ and permits a measurement accuracy of 0,05 mm for the contact lens diameter. The apparatus has a telecentric path of rays which is ensured by positioning the diaphragm D in the rear focal plane of the objective O.