



SLOVENSKI STANDARD
SIST EN ISO 9340:2000
01-januar-2000

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Optics and optical instruments - Contact lenses - Determination of strains for rigid contact lenses (ISO 9340:1996)

Optik und optische Instrumente - Kontaktlinsen - Bestimmung von Spannungen von formstabilen Kontaktlinsen (ISO 9340:1996)

Optique et instruments d'optique - Lentilles de contact - Détermination des déformations des lentilles de contact rigides (ISO 9340:1996)

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Ta slovenski standard je istoveten z: EN ISO 9340:1998

ICS:

11.040.70 Oftalmološka oprema Ophthalmic equipment

SIST EN ISO 9340:2000 en

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EUROPEAN STANDARD

EN ISO 9340

NORME EUROPÉENNE

EUROPÄISCHE NORM

July 1998

ICS 11.040.70

Descriptors: see ISO document

English version

Optics and optical instruments - Contact lenses - Determination of strains for rigid contact lenses (ISO 9340:1996)

Optique et instruments d'optique - Lentilles de contact - Détermination des déformations des lentilles de contact rigides (ISO 9340:1996)

Optik und optische Instrumente - Kontaktlinsen - Bestimmung von Spannungen von formstabilen Kontaktlinsen (ISO 9340:1996)

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

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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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 9340:1996 was approved by CEN as a European Standard without any modification.

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INTERNATIONAL
STANDARD

ISO
9340

First edition
1996-08-15

**Optics and optical instruments — Contact
lenses — Determination of strains for rigid
contact lenses**

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*Optique et instruments d'optique — Lentilles de contact — Détermination
des déformations des lentilles de contact rigides*

<https://standards.iteh.ai/catalog/standards/sist/a906bfe6-d96e-45d4-91e2-9b1b7c41b06c/sist-en-iso-9340-2000>



Reference number
ISO 9340:1996(E)

ISO 9340:1996(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 9340 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 this International Standard.

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Optics and optical instruments — Contact lenses — Determination of strains for rigid contact lenses

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1 Scope

This International Standard describes a procedure for determining the presence of strains in rigid contact lenses.

3 Definitions

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

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2 Normative reference

The following standard contains 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 edition of the standard 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*.

4 Requirements

4.1 Precision

Significant strains of contact lenses, if present, shall be clearly visible with the instrument.

4.2 Measuring temperature

The contact lens and measuring devices shall be maintained at temperatures of (20 ± 5) °C.

5 Recommended methods

A simple polarization apparatus is described in annex A. Other methods which fulfil the requirements of clause 4 are also allowed.

Annex A (normative)

Polarization method for testing for strain in contact lenses

A.1 Principle

The presence of strain shall be designated by the appearance of lightened areas and stated according to the classification given in table A.1.

The test is effected by using polarized light with the apparatus according to figure A.1.

Polarizer and analyser are arranged in such a way that their transmission directions are perpendicular to each other. The observation field will appear uniformly dark without the contact lens. The magnification of the enlarging auxiliary aid should be at least $\times 6$.

A.2 Procedure

For testing purposes, the contact lens shall be in the dry state. The contact lens is placed on the contact lens support and shall not be deformed by external influences. The contact lens is then tested for strain by observing it through the enlarging auxiliary aid and visually determining if strain is present (see table A.1).

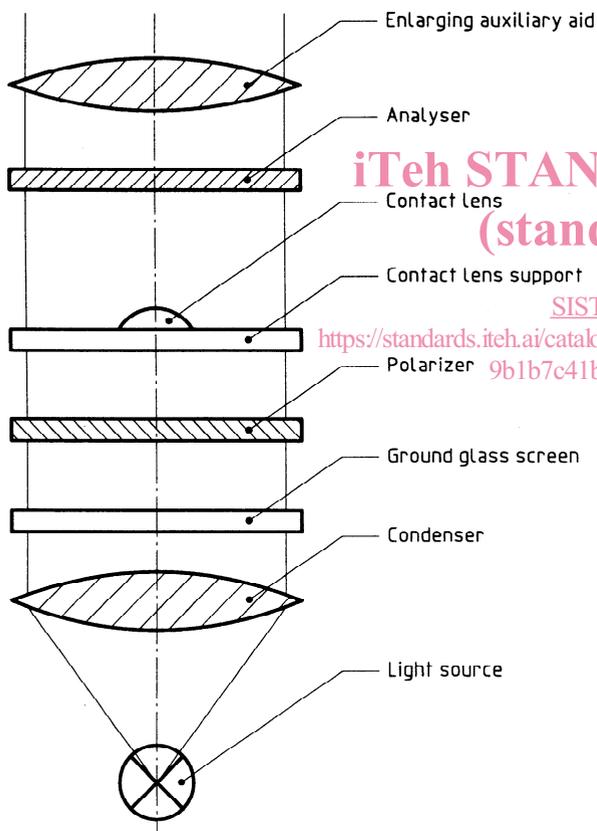


Figure A.1 — Measuring arrangement

Table A.1 — Rating scheme for appearance of lightened areas

Class	Appearance
0	not visible
1	visible

A.3 Test report

The test report shall contain at least the following information:

- the identification of the contact lens tested;
- a reference to this International Standard;
- the rating of the strain;
- the date of the examination.