

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*

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Reference number
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 $(20 \pm 5) ^\circ\text{C}$.

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).

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

Class	Appearance
0	not visible
1	visible

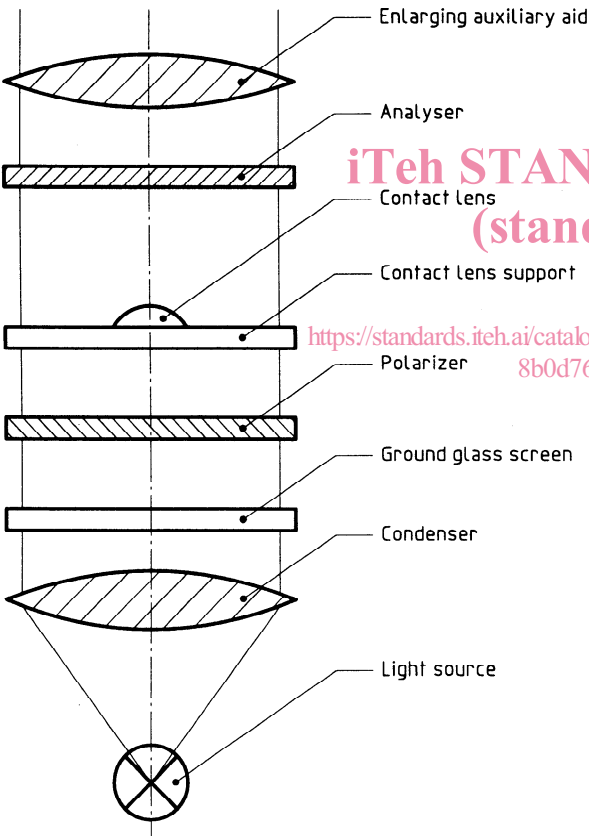


Figure A.1 — Measuring arrangement

A.3 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 rating of the strain;
 - d) the date of the examination.

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