INTERNATIONAL STANDARD

ISO 9341

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Optics and optical instruments — Contact lenses — Determination of inclusions and surface imperfections for rigid contact iTeh Tenses DARD PREVIEW

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Optique et instruments d'optique — Lentilles de contact — Détermination https://standards.ges.inclusions et imperfections de surface des lentilles de contact rigides eb6bf3d4f3b3/iso-9341-1996



ISO 9341:1996(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.

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International Standard ISO 9341 was prepared by Technical Committee ISO/TC 172, Optics and optical instruments, Subcommittee SC 7, Ophthalmic optics and instruments.

ISO 9341:1996

Annex A forms an integral part of this international Standard:/sist/38ae92be-398c-442a-b4b3-eb6bf3d4f3b3/iso-9341-1996

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Optics and optical instruments — Contact lenses -Determination of inclusions and surface imperfections for rigid contact lenses

Scope

This International Standard describes a procedure for the assessment of inclusions and surface imperfec-A R tions for rigid contact lenses. Surface markings intentionally made are not regarded as surface imper- 1 S shall be capable of resolving any inclusion greater than fections.

4 Test conditions

4.1 Resolution

For an observer with normal visual acuity, the method 3 μm in aný direction and any surface imperfection greater than 9 µm in any direction.

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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.

3 Definitions

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

The illumination of the contact lens to be examined shall be (350 \pm 35) lx including the room illumination.

4.3 Measuring temperature

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

Recommended method

A method for assessing material inclusions (e.g. bubbles, striae, fissures, residual granulates and foreign substances) and surface imperfections (e.g. scratches, matt areas and marginal chips) is described in annex A.

Other methods which fulfil the requirements of clause 4 are also allowed.

Annex A

(normative)

Inspection method for assessment of inclusions and surface imperfections of rigid contact lenses

A.1 Principle

The test is effected on a light-dark border with the apparatus according to figure A.1.

A.2 Procedure

Carry out the test with the lens in a dry state. Place the lens on the contact lens support (see figure A.1), ensuring that the lens is not deformed. With the aid of the magnifying device, view the lens at a light-dark border and record the defects as indicated in ARD PREVIEW table A.1. table A.1.

Table A.1 — Rating scheme for designating the size of defects (order of magnitude)

Class	Size of defects
0	not visible under × 6 magnification
1	not visible under × 2 magnification
2	visible under × 6 magnification
3	visible under × 2 magnification

The observer shall be skilled in the recognition of rigid and A.4 etest report

contact lens defects.

ISO 9341Thectest report shall contain at least the following in-For the observation of inclusions; aad and 6 item agnifying tandard formation 2 be-398c-442a-b4b3device shall be used and for the observationeofbsut46b3/iso-9341-1996 face imperfections, × 2 magnification shall be used.

A.3 Designation of size of defects

The size and location of any defects shall be designated according to the classification given in table A.1.

- a) a reference to this International Standard:
- the identification of the contact lens tested;
- description of defect (surface imperfections or inclusions);
- the class of defects:
- date of the examination.

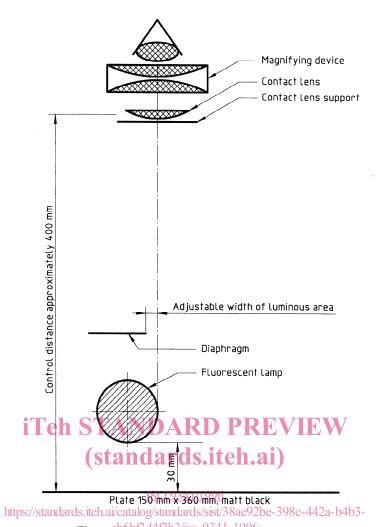


Figure A. 13-44 Arrangement of apparatus

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