

SLOVENSKI STANDARD

SIST EN ISO 12864:2000

01-januar-2000

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Ophthalmic optics - Contact lenses - Determination of scattered light (ISO 12864:1997)

Augenoptik - Kontaktlinsen - Bestimmung des Streulichtes (ISO 12864:1997)

Optique ophtalmique - Lentilles de contact - Détermination de la lumière diffusée (ISO 12864:1997)

Itel STANDARD PREVIEW
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Ta slovenski standard je istoveten z: **EN ISO 12864:1997**

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ICS:

11.040.70 Oftalmološka oprema Ophthalmic equipment

SIST EN ISO 12864:2000

en

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EUROPEAN STANDARD
NORME EUROPÉENNE
EUROPÄISCHE NORM

EN ISO 12864

December 1997

ICS 11.040.70

Descriptors: see ISO document

English version

Ophthalmic optics - Contact lenses - Determination of scattered
light (ISO 12864:1997)

Optique ophtalmique - Lentilles de contact - Détermination
de la lumière diffusée (ISO 12864:1997)

Augenoptik - Kontaktlinsen - Bestimmung des Streulichts
(ISO 12864:1997)

This European Standard was approved by CEN on 30 November 1997.

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, 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 ISO 12864:1997 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 June 1998, and conflicting national standards shall be withdrawn at the latest by June 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, Czech Republic, Denmark, Finland, France, Germany, Greece, Iceland, Ireland, Italy, Luxembourg, Netherlands, Norway, Portugal, Spain, Sweden, Switzerland and the United Kingdom.

Endorsement notice

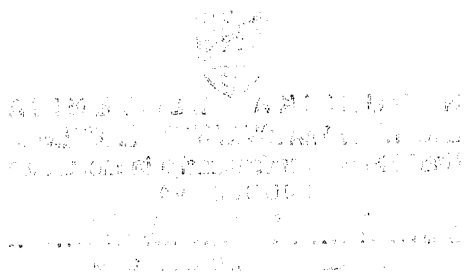
The text of the International Standard ISO 12864:1997 was approved by CEN as a European Standard without any modification.

NOTE: A-deviations are given in Annex ZA (informative).

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ANNEX ZA (informative)

A-deviations

A-deviation: National deviation due to regulations, the alteration of which is for the time being outside the competence of the CEN/CENELEC member.

This European Standard does not fall under any Directive of the EC. In the relevant CEN/CENELEC countries these A-deviations are valid instead of the provisions of the European Standard until they have been removed.

The legislative situation in Germany requires the unit "dioptr" be designated by the symbol "dpt" instead of "D".

This is to avoid conflict with the rules of ISO 1000 being the basic International Standard on symbols and units and with the respective basic resolution of the CGPM (International Conference on Weights and Measures).

Identification of the regulation:

Gesetz über die Einheiten im Meßwesen vom 02.07.1969 in der Fassung der Bekanntmachung vom 22.04.1985; and

Ausführungsverordnung zum Gesetz über Einheiten im Meßwesen (Einheitenverordnung - EinhV) vom 13.12.1985, § 1 und Anlage 1, Nr. 9

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INTERNATIONAL STANDARD

ISO
12864

First edition
1997-12-15

Ophthalmic optics — Contact lenses — Determination of scattered light

*Optique ophtalmique — Lentilles de contact — Détermination de la lumière
diffusée*

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Reference number
ISO 12864:1997(E)

ISO 12864:1997(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 12864 was prepared by ISO/TC 172 *Optics and optical instruments*, Subcommittee SC 7 *Ophthalmic optics and instruments*.

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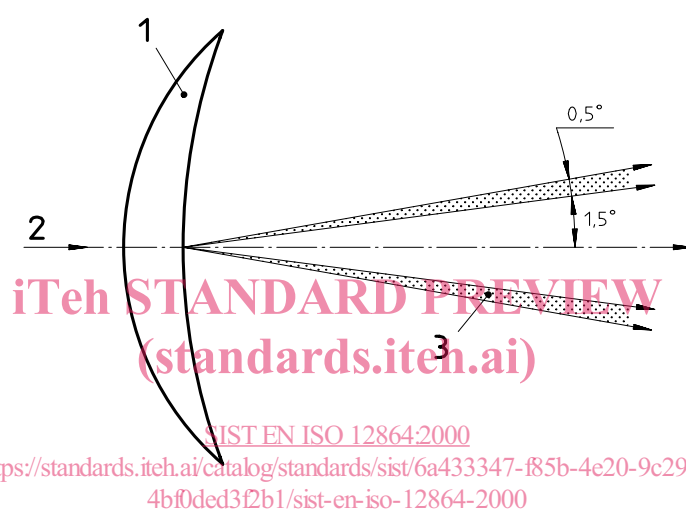
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Introduction

If light is scattered significantly when passing through a contact lens (CL), contrast is reduced and the visual performance of the wearer is impaired. In this case, the light which is scattered at a large angle to the direction of radiation is generally less disturbing than light which is scattered at small angles. In particular, light scattered at small angles may cause problems for drivers when the sun is low in the sky, when it reflects off wet roads and at night with oncoming traffic. Therefore it is desirable to minimize the small-angle scattering of contact lenses (see figure 1).



- 1 CL
- 2 Optical axis
- 3 Scattered light

Figure 1 — Small-angle scattering of a contact lens