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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.

The procedures used to develop this document and those intended for its further maintenance are described in the ISO/IEC Directives, Part 1. In particular the different approval criteria needed for the different types of ISO documents should be noted. This document was drafted in accordance with the editorial rules of the ISO/IEC Directives, Part 2.(see www.iso.org/directives).

Attention is drawn to the possibility that some of the elements of this document may be the subject of patent rights. ISO shall not be held responsible for identifying any or all such patent rights. Details of any patent rights identified during the development of the document will be in the Introduction and/or on the ISO list of patent declarations received (see www.iso.org/patents).

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For an explanation on the voluntary nature of standards, the meaning of ISO specific terms and expressions related to conformity assessment, as well as information about ISO's adherence to the World Trade Organization (WTO) principles in the Technical Barriers to Trade (TBT) see the following URL: www.iso.org/iso/foreword.html.

This document was prepared by Technical Committee ISO/TC 172, *Optics and photonics*, Subcommittee SC 7, *Ophthalmic optics and instruments*.

This second edition cancels and replaces the first edition (ISO 21987:2009), which has been technically revised.

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Ophthalmic optics — **Mounted spectacle lenses**

1 Scope

This document specifies requirements and test methods for mounted spectacle lenses relative to the prescription order.

2 Normative references

The following documents are referred to in the text in such a way that some or all of their content constitutes requirements of this document. For dated references, only the edition cited applies. For undated references, the latest edition of the referenced document (including any amendments) applies.

ISO 7944, Optics and optical instruments — Reference wavelengths

ISO 8429, Optics and optical instruments — Ophthalmology — Graduated dial scale

ISO 8598-1, Optics and optical instruments — Focimeters — Part 1: General purpose instruments

ISO 8624, Ophthalmic optics — Spectacle frames — Measuring system and terminology

ISO 8980-1, Ophthalmic optics — Uncut finished spectacle lenses — Part 1: Specifications for single-vision and multifocal lenses

ISO 8980-2, Ophthalmic optics — Uncut finished spectacle lenses — Part 2: Specifications for power-variation lenses

ISO 13666, Ophthalmic optics — Spectacle lenses — Vocabulary

ISO 14889, Ophthalmic optics — Spectacle lenses — Fundamental requirements for uncut finished lenses

3 Terms and definitions

For the purposes of this document, the terms and definitions given in ISO 13666 and the following apply.

ISO and IEC maintain terminological databases for use in standardization at the following addresses:

- IEC Electropedia: available at http://www.electropedia.org/
- ISO Online browsing platform: available at http://www.iso.org/obp

3.1

power-variation lens

spectacle lens with a smooth variation of focal power over part or all of its area, without discontinuity, designed to provide more than one focal power

Note 1 to entry: These are usually designed to provide increasing or decreasing spherical power, typically in a vertical meridian, so as to provide correction for different object distances.

Note 2 to entry: Examples of power-variation lenses are, but not limited to, progressive-power lenses (3.2) and degressive-power lenses (3.3).