
**Ophthalmic optics — Semi-finished
spectacle lens blanks —**

Part 1:
**Specifications for single-vision
and multifocal lens blanks**

Optique ophtalmique — Verres de lunettes semi-finis —

Partie 1: Spécifications pour les verres unifocaux et multifocaux



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Published in Switzerland

Foreword

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The main task of technical committees is to prepare International Standards. 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.

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.

ISO 10322-1 was prepared by Technical Committee ISO/TC 172, *Optics and photonics*, Subcommittee SC 7, *Ophthalmic optics and instruments*.

This third edition cancels and replaces the second edition (ISO 10322-1:1996), which has been technically revised.

ISO 10322 consists of the following parts, under the general title *Ophthalmic optics — Semi-finished spectacle lens blanks*:

- *Part 1: Specifications for single-vision and multifocal lens blanks*
- *Part 2: Specifications for progressive power lens blanks*

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Ophthalmic optics — Semi-finished spectacle lens blanks —

Part 1: Specifications for single-vision and multifocal lens blanks

1 Scope

This part of ISO 10322 specifies requirements for the optical and geometrical properties of semi-finished single-vision and multifocal spectacle lens blanks.

NOTE The requirements for semi-finished progressive power lens blanks are given in ISO 10322-2.

2 Normative references

The following referenced documents are indispensable for the application 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 8598, *Optics and optical instruments — Focimeters*

ISO 13666, *Ophthalmic optics — Spectacle lenses — Vocabulary*

3 Terms and definitions

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

3.1

focal-point-on-axis focimeter

FOA focimeter

focimeter in which the focal point of the beam remains on the axis of the focimeter when the lens under test is measured at a point on the lens where prism is not zero

See Figure 1.

NOTE Examples of this design include all manual focusing focimeters and some automatic focimeters.

3.2

infinite-on-axis focimeter

IOA focimeter

focimeter in which the collimated beam coincides with the focimeter axis and the focal point of the beam goes off the axis of the focimeter when the lens under test is measured at a point of the lens where prism is not zero

See Figure 2.

NOTE Some automatic focimeters use this design.