

Australian/New Zealand Standard™

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

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



AS/NZS ISO 10322.1:2011

This Joint Australian/New Zealand Standard was prepared by Joint Technical Committee MS-024, Spectacles. It was approved on behalf of the Council of Standards Australia on 17 March 2011 and on behalf of the Council of Standards New Zealand on 18 March 2011.

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The following are represented on Committee MS-024:

Australian Dispensing Opticians Association
New Zealand Association of Optometrists
Optical Distributors and Manufacturers Association of Australia
Queensland University of Technology
The University of Melbourne
The University of New South Wales
University of Auckland (New Zealand)

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PREFACE

This Standard was prepared by the Joint Standards Australia/Standards New Zealand Committee MS-024, Spectacles. This Standard replaces relevant text in AS 2228.1—1992, which is intended to be withdrawn by February 2012.

The objective for this Standard is to specify requirements for the optical and geometrical properties of semi-finished single-vision and multifocal spectacle lens blanks.

This Standard is identical with, and has been reproduced from ISO 10322-1:2006, *Ophthalmic optics—Semi-finished spectacle lens blanks—Part 1: Specifications for single-vision and multifocal lens blanks*.

As this Standard is reproduced from an International Standard, the following applies:

- (a) Its number appears on the cover and title page while the international standard number appears only on the cover.
- (b) In the source text ‘this part of ISO 10322’ should read ‘this part of AS/NZS ISO 10322’.
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References to International Standards should be replaced by references to Australian or Australian/New Zealand Standards, as follows:

<i>Reference to International Standard</i>	<i>Australian/New Zealand Standard</i>
ISO	AS/NZS ISO
13666 Ophthalmic optics—Spectacle lenses—Vocabulary	13666 Ophthalmic optics—Spectacle lenses—Vocabulary

Only international references that have been adopted as Australian or Australian/New Zealand Standards have been listed.

The term ‘informative’ has been used in this Standard to define the application of the annex to which it applies. An ‘informative’ annex is only for information and guidance.

AUSTRALIAN/NEW ZEALAND STANDARD

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.