

Australian/New Zealand Standard™

**Ophthalmic optics—Uncut finished
spectacle lenses**

**Part 5: Minimum requirements for
spectacle lens surfaces claimed to be
abrasion-resistant**



AS/NZS ISO 8980.5:2011

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 26 October 2010 and on behalf of the Council of Standards New Zealand on 12 November 2010.

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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

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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 This Standard replaces relevant text in AS 2228.1—1992, which is intended to be withdrawn by February 2012.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 of this Standard is to specify the requirement and test method for spectacle lens surfaces that are claimed to provide a basic level of abrasion resistance.

This Standard is identical with, and has been reproduced from ISO 8980-5:2005, *Ophthalmic optics—Uncut finished spectacle lenses—Part 5: Minimum requirements for spectacle lens surfaces claimed to be abrasion-resistant*.

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 8980’ should read ‘this part of AS/NZS ISO 8980’.
- (c) A full point substitutes for a comma when referring to a decimal marker.

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
8980 Ophthalmic optics—Uncut finished spectacle lenses	8980 Ophthalmic optics—Uncut finished spectacle lenses
8980-4 Part 4: Specifications and test methods for anti-reflective coatings	8980.4 Part 4: Specifications and test methods for anti-reflective coatings

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

The terms ‘normative’ and ‘informative’ have been used in this Standard to define the application of the annex to which they apply. A ‘normative’ annex is an integral part of a Standard, whereas an ‘informative’ annex is only for information and guidance.

AUSTRALIAN/NEW ZEALAND STANDARD

Ophthalmic optics — Uncut finished spectacle lenses —

Part 5:

Minimum requirements for spectacle lens surfaces claimed to be abrasion-resistant

1 Scope

This part of ISO 8980 specifies the requirement and test method for spectacle lens surfaces that are claimed to provide a basic level of abrasion resistance including those with coatings.

A lens claimed to be abrasion-resistant shall meet the requirements on both front and back surfaces.

Lens powers and surface form is restricted for testing, however test results are applicable to claims for lenses and lens surfaces with identical properties other than the lens power or surface radius.

This part of ISO 8980 does not attempt to define the properties of lens surfaces with abrasion resistance better than the following defined criteria.

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 48, *Rubber, vulcanized or thermoplastic — Determination of hardness (hardness between 10 IRHD and 100 IRHD)*

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

ISO 8980-4, *Ophthalmic optics — Uncut finished spectacle lenses — Part 4: Specifications and test methods for anti-reflective coatings*

3 Terms and definitions

For the purposes of this document, the terms and definitions given in ISO 13666 and in ISO 8980-4 and the following apply.

3.1

abrasion resistance

property of a spectacle lens surface to resist damage during normal use such as scratches caused by cleaning or wear