

Australian/New Zealand Standard™

Eye and face protection

Part 5: Eye protectors for adjustment work on lasers and laser systems (laser adjustment eye-protectors)

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AS/NZS 1337.5:2011

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Part 5: Eye protectors for adjustment work on lasers and laser systems (laser adjustment eye-protectors)

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PREFACE

This Standard was prepared by the Joint Standards Australia/Standards New Zealand Committee SF-006, Eye and Face Protection, to supersede AS/NZS 1337.5:2004, *Personal eye-protection, Part 5: Eye-protectors for adjustment work on lasers and laser systems (laser adjustment eye-protectors)*.

This Standard incorporates Amendment No. 1 (December 2014). The changes required by the Amendment are indicated in the text by a marginal bar and amendment number against the clause, note, table, figure or part thereof affected.

The objective of this Standard is to specify performance requirements, test methods, marking requirements, selection and use of laser adjustment filters and eye-protectors against laser radiation in the spectral range 400 nm to 700 nm.

This Standard is identical with, and has been reproduced from EN 208:2009, *Personal eye-protection—Eye-protectors for adjustment work on lasers and laser systems (laser adjustment eye-protectors)*.

As this Standard is reproduced from a European Standard, the following applies:

- (a) Its number appears on the cover and title page while the European Standard number appears only on the cover.
- (b) In the source text ‘this European Standard’ should read ‘this Australian/New Zealand Standard’.
- (c) A full point substitutes for a comma when referring to a decimal marker.

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.

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AUSTRALIAN/NEW ZEALAND STANDARD

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Part 5:

Eye protectors for adjustment work on lasers and laser systems (laser adjustment eye-protectors)

1 Scope

This European Standard applies to laser adjustment filters and eye-protectors. These are filters and eye-protectors for use in adjustment work on lasers and laser systems as defined in EN 60825-1:2007 where hazardous radiation occurs in the visible spectral range of 400 nm to 700 nm. Filters specified in this European Standard reduce this radiation to values defined for lasers of class 2 (≤ 1 mW for CW (continuous wave) lasers).

This European Standard defines the requirements, test methods and marking. A guide is given in Annex B with regard to selection and use.

EN 207 applies to eye-protection against accidental exposure to laser radiation.

NOTE Before selecting eye protection according to this European Standard a risk assessment should first be undertaken (see Annex B).

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.

EN 166:2001, *Personal eye-protection — Specifications*

EN 167:2001, *Personal eye-protection — Optical test methods*

EN 168:2001, *Personal eye-protection — Non-optical test methods*

EN 207:2009, *Personal eye-protection equipment — Filters and eye-protectors against laser radiation (laser eye-protectors)*

ISO 11664-1:2007, *Colorimetry — Part 1: CIE standard colorimetric observers*

ISO 11664-2:2007, *Colorimetry — Part 2: CIE standard illuminants*

3 Requirements

3.1 Spectral transmittance of filters and frames

When tested according to 4.2, the spectral transmittance values of the filters and the frames for the laser wavelength shall be as given in Table 1.