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Australian/New Zealand Standard™

Eye and face protection — Protection against laser radiation

Part 1: Requirements and test methods



AS/NZS ISO 19818.1:2023

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The following are represented on Committee SF-006:

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- Australian and New Zealand Society of Occupational Medicine
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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 1337.4:2011, *Eye and face protection, Part 4: Filters and eye protectors against laser radiation (laser eye-protectors)*, and its Amendment 1 (2015).

The objective of this document is to apply to protectors intended to provide protection against accidental exposure to laser radiation within the wavelength range 180 nm to 1 mm. It specifies the requirements, test methods and marking. Protectors intended for adjustment work on lasers are included in the scope of this document and are marked in the same way as other protectors, but selection of appropriate eyewear for a specific application is a choice of the user. Laser protective filters used as viewing windows in laser equipment machinery or incorporated into optical instruments such as operating microscopes and loupes that may be used for deliberate viewing of laser radiation as part of their function are outside the scope of this document.

Laser radiation in the wavelength range below 180 nm is absorbed in air, therefore eye and face protection should not be required.

This document is applicable to devices intended for patient protection during medical laser procedures except for treatment in the periorbital area. Guidance on eye protectors for patients (including those used for periorbital treatment) is given in ISO/TR 22463.

This document is identical with, and has been reproduced from, ISO 19818-1:2021, *Eye and face protection — Protection against laser radiation — Part 1: Requirements and test methods*.

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1) For the purposes of this document, "protector" is used as a general term for eye protector and/or eye and face protectors used for laser protection.

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