

AS/NZS 18527.2:2022



Australian/New Zealand Standard™

Eye and face protection for sports use

Part 2: Requirements for eye protectors for squash and eye protectors for racquetball and squash 57 (ISO 18527-2:2021, MOD)



AS/NZS 18527.2:2022

This Joint Australian/New Zealand Standard™ was prepared by Joint Technical Committee SF-006, Eye and Face Protection. It was approved on behalf of the Council of Standards Australia on 4 March 2022 and by the New Zealand Standards Approval Board on 2 March 2022.

This Standard was published on 25 March 2022.

The following are represented on Committee SF-006:

- Association of Accredited Certification Bodies, Australia
- Australasian Fire and Emergency Service Authorities Council, Australia
- Australian and New Zealand Society of Occupational Medicine, New Zealand
- Australian Chamber of Commerce and Industry
- Australian Competition and Consumer Commission
- Australian Dispensing Opticians Association
- Australian Industry Group
- Australian Radiation Protection and Nuclear Safety Agency
- Better Regulation Division (Fair Trading, Safework NSW, TestSafe)
- Consumers Federation of Australia
- Department of Defence (Australian Government)
- Human Factors and Ergonomics Society of Australia
- New Zealand Association of Optometrists
- New Zealand Institute of Safety Management
- Optical Distributors and Manufacturers Association of Australia
- Optometry Australia
- Queensland University of Technology
- Royal Australian and New Zealand College of Ophthalmologists, Australia
- The University of Melbourne
- University of Auckland
- University of Canberra
- University of New South Wales
- Weld Australia

This Standard was issued in draft form for comment as DR AS/NZS 18527.2:2021.

Keeping Standards up-to-date

Ensure you have the latest versions of our publications and keep up-to-date about Amendments, Rulings, Withdrawals, and new projects by visiting:

www.standards.org.au

www.standards.govt.nz

ISBN 978 1 76113 699 3

Australian/New Zealand Standard™

Eye and face protection for sports use

Part 2: Requirements for eye protectors for squash and eye protectors for racquetball and squash 57 (ISO 18527-2:2021, MOD)

Originated as AS/NZS 4066:1992.
Jointly revised and redesignated as AS/NZS 18527.2:2022.

COPYRIGHT

© ISO 2022 — All rights reserved

© Standards Australia Limited/the Crown in right of New Zealand, administered by the New Zealand Standards Executive 2022

All rights are reserved. No part of this work may be reproduced or copied in any form or by any means, electronic or mechanical, including photocopying, without the written permission of the publisher, unless otherwise permitted under the Copyright Act 1968 (Cth) or the Copyright Act 1994 (New Zealand).

Preface

This Standard was prepared by the Joint Standards Australia/Standards New Zealand Committee SF-006, Eye and Face Protection, to supersede AS/NZS 4066:1992, *Eye protectors for racquet sports*.

The objective of this document is to specify requirements for all eye protectors intended for eye protection against hazards during playing or instructing in the sports of squash, racquetball and squash 57, as well as sports with similar hazards and no greater risks. It applies to eye protectors that incorporate prescription lenses but has no specific tests for eye protectors designed for use over spectacles.

It also specifies requirements and testing for materials, performance, marking of eye protectors and information to be supplied by the manufacturer.

This document does not apply to —

- (a) sports eye protectors designed for use over prescription spectacles;
- (b) eye protectors for other occupational applications;
- (c) eye protectors without lenses;
- (d) eye protectors for sports where the hazards are unrelated to the hazards in or involve greater risks than squash, racquetball and squash 57, and;
- (e) eye protectors with gradient-tinted lenses because they are not appropriate for squash, racquetball or squash 57.

This document is an adoption with national modifications, and has been reproduced from, ISO 18527-2:2021, *Eye and face protection for sports use — Part 2: Requirements for eye protectors for squash and eye protectors for racquetball and squash 57*.

The modifications are additional requirements and are set out in [Appendix ZZ](#), which has been added at the end of the source text.

[Appendix ZZ](#) lists the modifications to ISO 18527-2:2021 for the application of this document in Australia and New Zealand.

As this document has been reproduced from an International document, a full point substitutes for a comma when referring to a decimal marker.

Australian or Australian/New Zealand Standards that are identical adoptions of international normative references may be used interchangeably. Refer to the online catalogue for information on specific Standards.

The terms “normative” and “informative” are used in Standards to define the application of the appendices or annexes to which they apply. A “normative” appendix or annex is an integral part of a Standard, whereas an “informative” appendix or annex is only for information and guidance.

Contents

Preface	ii
Foreword	v
Introduction	vi
1 Scope	1
2 Normative references	1
3 Terms and definitions	1
4 General requirements for eye protectors	2
4.1 Physiological compatibility.....	2
4.2 Construction and adjustment.....	2
4.3 Cleaning and/or disinfection.....	3
4.4 Lens material and surface quality.....	3
4.5 Headform(s).....	3
4.6 Retention by headband and harnesses (sit and fit).....	3
4.7 Mandatory and optional requirements.....	3
5 Transmittance of the lenses	3
5.1 General.....	3
5.2 Transmittance categories.....	3
5.3 Solar ultraviolet transmittance.....	4
5.4 General transmittance requirements.....	4
5.4.1 Uniformity of luminous transmittance and transmittance matching.....	4
5.4.2 Variations due to thickness variations.....	5
5.5 Special transmittance requirements.....	5
5.5.1 Photochromic lenses.....	5
5.5.2 Polarizing lenses.....	5
5.5.3 Gradient-tinted lenses.....	5
5.6 Claimed transmittance and reflectance properties (optional requirements).....	5
5.6.1 General.....	5
5.6.2 Solar blue-light absorption/transmittance.....	5
5.6.3 Solar UV absorption/transmittance.....	6
5.6.4 Anti-reflective coated lenses.....	6
5.6.5 Reduced reflection coated lenses.....	6
6 Scattered light	6
7 Refractive power	7
7.1 Non-prescription eye protectors.....	7
7.1.1 Spherical and cylindrical power.....	7
7.1.2 Spatial deviation.....	7
7.1.3 Prism imbalance.....	7
7.2 Prescription eye protectors.....	7
8 Mechanical strength	7
8.1 Mechanical strength of squash eye protectors.....	7
8.2 Mechanical strength of racquetball and squash 57 eye protectors.....	8
8.3 Failure criteria after impact.....	8
9 Resistance to solar ultraviolet radiation	9
10 Resistance to ignition	9
11 Field of view	9
12 Minimum area to be protected	10

This is a free preview. Purchase the entire publication at the link below:

[Product Page](#)

-
- Looking for additional Standards? Visit Intertek Inform Infostore
 - Learn about LexConnect, All Jurisdictions, Standards referenced in Australian legislation
-