

AS/NZS 1067:2003
(Incorporating Amendment No. 1)

AS/NZS 1067:2003

Australian/New Zealand Standard™

Sunglasses and fashion spectacles



AS/NZS 1067:2003

This Joint Australian/New Zealand Standard was prepared by Joint Technical Committee CS-053, Sunglasses. It was approved on behalf of the Council of Standards Australia on 31 March 2003 and on behalf of the Council of Standards New Zealand on 18 March 2003.

This Standard was published on 10 April 2003.

The following are represented on Committee CS-053:

Australian Association of Certification Bodies
Australian Chamber of Commerce and Industry
Australian Competition and Consumer Commission
Australian Institute of Sport
Australian Radiation Protection and Nuclear Safety Agency
Australian Retailers Association
Cancer Society of New Zealand
Consumers Federation of Australia
Department of Defence (Australia)
Guild of Dispensing Opticians (Australia)
New Zealand Association of Optometrists
Office of Consumer and Business Affairs, South Australia
Optical Distributors and Manufacturers Association of Australia
Optometrists Association, Australia
Queensland University of Technology
Royal Australian and New Zealand College of Ophthalmologists
Sunglass Association of Australia
The Treasury, Consumer Affairs Division
University of Auckland
University of New South Wales
Victorian College of Optometry

Keeping Standards up-to-date

Standards are living documents which reflect progress in science, technology and systems. To maintain their currency, all Standards are periodically reviewed, and new editions are published. Between editions, amendments may be issued. Standards may also be withdrawn. It is important that readers assure themselves they are using a current Standard, which should include any amendments which may have been published since the Standard was purchased.

Detailed information about joint Australian/New Zealand Standards can be found by visiting the Standards Web Shop at www.standards.com.au or Standards New Zealand web site at www.standards.co.nz and looking up the relevant Standard in the on-line catalogue.

Alternatively, both organizations publish an annual printed Catalogue with full details of all current Standards. For more frequent listings or notification of revisions, amendments and withdrawals, Standards Australia and Standards New Zealand offer a number of update options. For information about these services, users should contact their respective national Standards organization.

We also welcome suggestions for improvement in our Standards, and especially encourage readers to notify us immediately of any apparent inaccuracies or ambiguities. Please address your comments to the Chief Executive of either Standards Australia or Standards New Zealand at the address shown on the back cover.

This Standard was issued in draft form for comment as DR 01347.

AS/NZS 1067:2003
(Incorporating Amendment No. 1)

Australian/New Zealand Standard™

Sunglasses and fashion spectacles

Originated as AS 1067—1971.
Previous editions AS 1067.1—1990 and AS 1067.2—1990.
AS 1067.1—1990 and AS 1067.2—1990 jointly revised, amalgamated
and redesignated as AS/NZS 1067:2003.
Reissued incorporating Amendment No. 1 (June 2009).

COPYRIGHT

© Standards Australia/Standards New Zealand

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.

Jointly published by Standards Australia, GPO Box 476, Sydney, NSW 2001 and Standards New Zealand, Private Bag 2439, Wellington 6020

ISBN 0 7337 5182 2

PREFACE

This Standard was prepared by Standards Australia/Standards New Zealand Committee CS-053, Sunglasses to supersede AS 1067.1—1990, *Sunglasses and fashion spectacles*, Part 1: *Safety requirements* and AS 1067.2—1990 and *Sunglasses and fashion spectacles*, Part 2: *Performance requirements*.

This Standard incorporates Amendment No. 1 (June 2009). 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.

This Standard was first published in 1971 at which time it was the first national standard for sunglasses in the world. It addressed in novel ways the problems of protection against ultraviolet radiation and the distortion of colours by coloured sunglass lenses, as well as setting requirements for optical performance.

Since then a number of other national standards for sunglasses have been published which address the same safety and health issues defined by AS 1067 but take different approaches to setting requirements for sunglasses.

While it is acknowledged that the previous Australian sunglasses Standard was particularly well accepted nationally and internationally, revision of the Standard became a necessity to comply with elements of the World Trade Organization (WTO) Agreement on Technical Barriers to Trade (commonly referred to as the TBT Code).

Currently, there is no international Standard for sunglasses but the European Standard EN 1836, *Personal eye protection—Sunglasses and sunglare filters for general use* has significant international acceptance.

For this reason, this Australian/New Zealand Standard for sunglasses is modelled on the European Standard. The test methods are the same as those of the European Standard, however this Standard sets some different requirements to avoid lowering the standards set by AS 1067—1990 and reducing the level of protection provided. This recognizes the special circumstances of this region, especially its climatic conditions.

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

Statements expressed in mandatory terms in notes to figures are deemed to be requirements of this Standard.

CONTENTS

	<i>Page</i>
FOREWORD.....	5
 SECTION 1 SCOPE AND GENERAL	
1.1 SCOPE	6
1.2 OBJECTIVE	6
1.3 REFERENCED DOCUMENTS	6
1.4 DEFINITIONS	7
1.5 NOTATION	9
1.6 EQUATIONS	10
 SECTION 2 REQUIREMENTS FOR SUNGLASS LENSES	
2.1 TRANSMITTANCE REQUIREMENTS AND LENS CATEGORIES.....	13
2.2 OTHER TRANSMITTANCE REQUIREMENTS	15
2.3 SPECIAL TRANSMITTANCE REQUIREMENTS	15
2.4 CLAIMED TRANSMITTANCE PROPERTIES	16
2.5 OPTICAL POWER OF LENSES	16
2.6 SCATTERED LIGHT	17
2.7 MATERIAL AND SURFACE QUALITY	17
2.8 RESISTANCE TO RADIATION	17
2.9 IGNITION	18
 SECTION 3 REQUIREMENTS FOR ASSEMBLED SUNGLASSES	
3.1 GENERAL CONSTRUCTION.....	19
3.2 EYE COVERAGE AND FIELD OF VIEW	19
3.3 DIMENSIONAL TOLERANCE.....	19
3.4 MECHANICAL REQUIREMENTS.....	19
3.5 IGNITION	20
3.6 MATERIALS FOR THE MANUFACTURE OF ASSEMBLED SUNGLASSES	20
 SECTION 4 MARKING AND LABELLING	
4.1 INFORMATION TO BE SUPPLIED	21
4.2 METHODS OF MARKING AND LABELLING	22
4.3 TRANSMITTANCE CLAIMS	22
4.4 IMPACT RESISTANCE	22
 APPENDICES	
A USE OF SUNGLASS LENSES	23
B MEASUREMENT OF SPECTRAL TRANSMITTANCE AND CALCULATIONS OF LENS TRANSMITTANCES AND SIGNAL ATTENUATION QUOTIENTS	25
C SPECTRAL FUNCTIONS	30
D TEST FOR SPHERICAL, CYLINDRICAL AND PRISMATIC POWERS.....	35
E DETERMINATION OF LOCAL ABERRATIONS IN SPHERICAL AND CYLINDRICAL POWER.....	37
F DETERMINATION OF THE DIFFERENCE IN PRISMATIC POWER FOR PAIRS OF LENSES OR ASSEMBLED SUNGLASSES	39
G LIGHT DIFFUSION TEST	41
H ASSESSMENT OF QUALITY OF MATERIAL AND SURFACE.....	46

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
-