

Australian/New Zealand Standard™

**Light-transmitting screens and curtains
for welding operations**



AS/NZS 3957:2014

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 10 June 2014 and on behalf of the Council of Standards New Zealand on 5 June 2014.

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Australian Chamber of Commerce and Industry
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Australian Industry Group
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Australian/New Zealand Standard™

Light-transmitting screens and curtains for welding operations

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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 3957:2006.

Welding screens are mentioned in AS/NZS 1336 *Recommended practices for occupational eye protection*. This Standard deals specifically with safety requirements for screens and curtains for areas where hazardous intense light transmission from welding operations occurs and visibility of the worker by an outside observer is also required.

The objective of this revision is to make corrections, and to take into account the unavailability of a light source for testing in Appendix E by replacing the Appendix with a new test method anticipated to be consistent with a future ISO test method.

Consideration may be given in the next revision to setting increased requirements for flammability, such as those given in ANSI 4950 *American National Standard for Evaluating Welding Pads, Welding Blankets and Welding Curtains for Hot Work Operations*.

The term 'normative' has been used in this Standard to define the application of the appendix to which it applies. A 'normative' appendix is an integral part of a Standard.

FOREWORD

Although common practice seems to favour the division of the ultraviolet band into three discrete spectral regions identified as UV-A, UV-B and UV-C, investigations carried out during the early stages of preparation of this Standard revealed a significant variation in the specific wavelengths used by different organizations to define the boundaries of each of the three spectral regions. Accordingly, the Standard avoids any possible confusion that might arise from the use of discrete spectral regions by making reference to specific wavelength ranges where necessary.

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STANDARDS AUSTRALIA/STANDARDS NEW ZEALAND

Australian/New Zealand Standard**Light-transmitting screens and curtains for welding operations**

SECTION 1 SCOPE AND GENERAL

1.1 SCOPE

This Standard sets out the safety and physical requirements for light-transmitting screens and curtains intended to provide protection against hazardous radiation generated during welding processes, while simultaneously affording visual contact with the working position.

1.2 APPLICATION

This Standard applies to all welding screens and curtains whether portable or permanently installed.

This Standard does not apply to screens used for protection against laser radiation. These are dealt with in IEC 60825-4 and AS/NZS IEC 60825.14.

This Standard does not apply to protective materials for direct viewing of the welding processes, which are dealt with in AS/NZS 1336, AS/NZS 1337.1 and AS/NZS 1338.1, or to eye protection against laser radiation, which are dealt with in AS/NZS 1336, AS/NZS 1337.4 and AS/NZS 1337.5.

1.3 REFERENCED DOCUMENTS

The following documents are referred to in this Standard:

AS

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| 1852 | International electrotechnical vocabulary |
| 1852.845 | Part 845:Lighting |
| 2812 | Welding, brazing and cutting of metals—Glossary of terms |

AS/NZS

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|-------------|--|
| 1336 | Recommended practices for occupational eye and face protection |
| 1337 | Personal eye protection |
| 1337.0(Int) | Part 0: Eye and face protectors—Vocabulary |
| 1337.1 | Part 1: Eye and face protectors for occupational applications |
| 1337.2 | Part 2: Mesh eye and face protectors for occupational applications |
| 1337 | Eye and face protection |
| 1337.4 | Part 4: Filters and eye protectors against laser radiation (laser eye-protectors) |
| 1337.5 | Part 5: Eye protectors for adjustment work on lasers and laser systems (laser adjustment eye-protectors) |
| 1338 | Filters for eye protectors |
| 1338.1 | Part 1: Filters for protection against radiation generated in welding and allied operations |

AS/NZS IEC

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|----------|--------------------------|
| 60825 | Safety of laser products |
| 60825.14 | Part 14: A user's guide |