

STANDARDS AUSTRALIA/STANDARDS NEW ZEALAND

Amendment No. 1
to
AS/NZS 1337.1:2010
Personal eye protection
Part 1: Eye and face protectors for occupational applications

REVISED TEXT

The 2010 edition of AS/NZS 1337.1 is amended as follows; the amendment(s) should be inserted in the appropriate place(s).

SUMMARY: This Amendment applies to the Preface, Clauses 1.3, 2.2.3, 2.2.4, 2.3.2, 2.4.1, 2.4.6.3, 2.4.8, 2.12, 2.13.1, 3.2.4, 3.2.10, 3.4, 3.5.1, 3.5.2, 5.3.1, 5.6, Tables 6, 7 and 8, Appendices A, B, H, K, L, M, N, O, P and T.

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Preface

Delete the reference to document AS 2228.1, and *replace* with the following:

AS/NZS ISO
21987 Ophthalmic optics—Mounted spectacle lenses

Clause 1.3

In the referenced documents (under the ISO designation) *delete* ‘10526 CIE standard illuminants for colorimetry’ and *replace* with the following:

11664 Colorimetry
11664-1 Part 1: CIE standard colorimetric observers
11664-2 Part 2: CIE standard illuminants

Clause 2.2.3

Delete the first sentence and *replace* with the following:

Unfitted oculars shall comply with the following dimensional requirements, except those intended to be used in protectors designed to fit small heads, which shall meet the requirements of Clause 2.2.4:

Clause 2.2.4

Add the following new Clause:

2.2.4 Dimensions of oculars and visors for small heads

Unfitted oculars intended to be used in protectors designed to fit small heads shall comply with the following dimensional requirements:

- (a) *Eye cup goggles*—Each ocular in eye cup goggles shall have a box length of not less than 50 mm and a box depth of not less than 40 mm. Glass oculars other than filter oculars or cover oculars shall be not less than 3 mm thick. See Figures 2 and 3.

AMDT
No. 1
APR
2012

AMDT
No. 1
APR
2012

AMDT
No. 1
APR
2012

AMDT
No. 1
APR
2012

- (b) *Eye-shield*—The transparent visor of a half-face type of eye-shield shall be of sufficient area to contain a rectangle 100 mm horizontally and 60 mm vertically, (when fitted to a nominated mounting, including binding where applicable), symmetrically located about the vertical centre-line. See Figure 4.
- (c) *Face-shield*—The transparent visor of a face-shield shall be of sufficient area to contain a rectangle 100 mm horizontally and 125 mm vertically, (when fitted to a nominated mounting, including chin guard or binding where applicable), symmetrically located about the vertical centre-line.
- (d) *Safety clip-ons*—Each ocular of a safety clip-on shall have a box length of not less than 42 mm box depth of not less than 32 mm.
- (e) *Spectacle eye protector*—Shaped oculars in spectacle eye protector shall have a box length of not less than 42 mm and a box depth of not less than 32 mm. Tempered glass oculars shall be not less than 3 mm thick.
- (f) *Wide-vision goggle*—The ocular or oculars of wide-vision goggle shall have minimum dimensions such that they wholly contain a rectangle 100 mm × 42 mm symmetrically located about the vertical centre-line in the horizontal plane of the ocular and in the as-worn position. Shaping to fit the nose area may intrude into the rectangle.
- (g) *Wide-vision spectacles*—The oculars of wide-vision spectacles shall have a box length of not less than 35 mm and a box depth of not less than 30 mm.
- (h) *Wire-mesh screens*—The transparent ocular of a wire-mesh screen shall be of sufficient area to contain a rectangle 100 mm horizontally and 85 mm vertically, symmetrically located about the vertical centre-line.

Clause 2.3.2

- 1 *Delete* Item (b) and *replace* with the following:
 - (b) *For visors*—the area contained in a rectangle 120 mm horizontally and 50 mm vertically, except for visors specified in Clause 2.2.4, symmetrically located about the vertical centre-line, and in the horizontal plane of the ocular in the as-worn position.
- 2 *Add* Item (d) as follows:
 - (d) *For visors meeting the requirements of Clause 2.2.4*—the area contained in a rectangle 100 mm horizontally and 42 mm vertically, symmetrically located about the vertical centre-line, and in the horizontal plane of the ocular in the as-worn position.

Clause 2.4.1

- 1 *Delete* Item (b) and *replace* with the following:
 - (b) *Pairs of oculars*—For pairs of oculars mounted or integrally moulded in a frame, or intended for mounting in a particular frame, measurement shall be made for each ocular at a point on the horizontal mid box line 32 mm (for a medium-sized headform) (see Figure 3(a)) or 27 mm (for a small-sized headform) from the centre-line of the frame (see Figure 3(b)).

2 *Delete* Item (c) and *replace* with the following:

- (c) *One-piece ocular and visor types*—For one-piece ocular and visor types mounted or integrally moulded in a frame, or intended for mounting in a particular frame, measurement shall be made at points 32 mm (for a medium-sized headform) (see Figure 4(a)) or 27 mm (for a small-sized headform) on either side of the centre-line and which lie in the horizontal plane that would bisect the eyes when the visor is worn (see Figure 4(b)).

AMDT
No. 1
APR
2012

Clause 2.4.6.3

- 1 *Delete* the term ‘medium sized’ and *replace* with ‘medium-sized’.
- 2 *Delete* the term ‘small sized’ and *replace* with ‘small-sized’.

AMDT
No. 1
APR
2012

Clause 2.4.8

Delete the word ‘haze’ and *replace* with ‘scattered light’ in all three instances.

AMDT
No. 1
APR
2012

Clause 2.12

Delete the clause text and *replace* with the following:

A minimum of three samples (pairs if applicable) of oculars shall be subjected to the appropriate tests listed in Table 4 and in the sequence described therein. Low and medium impact testing and penetration resistance testing shall be carried out on the same protector. Each impact test at the high and extra high impact levels shall be carried out on a protector that has not been previously impacted.

AMDT
No. 1
APR
2012

Clause 2.13.1

- 1 *Delete* Item (a) and *replace* with the following:
- (a) The manufacturer’s name, trade name or mark. This shall not be in a form that is likely to cause confusion with any of the letters or numerals permitted in AS/NZS 1337.1, Table 7 or the ‘R’ required in AS/NZS 1337.6 to indicate prescription eye protectors.
- 2 *Delete* Item (b) and *replace* with the following:
- (b) The ocular marking appropriate to the type of protector (see Tables 1 and 7).

AMDT
No. 1
APR
2012

Clause 3.2.4

Second paragraph, first line, *delete* ‘3.3.3, 3.3.4 and 3.3.5’ and *replace* with ‘3.3.4, 3.3.5 and 3.3.6’.

AMDT
No. 1
APR
2012

Clause 3.2.10

Delete Item (a) and *replace* with the following:

- (a) their optical properties shall not have deteriorated beyond the limits specified in Clause 2.4.7; and