

Australian/New Zealand Standard™

Occupational protective footwear

Part 2: Requirements and test methods

[Modified and including the full text of ISO 8782-1:1998]



S t a n d a r d s Australia



STANDARDS
NEW ZEALAND
PŌHĀKA AOTEAROA

AS/NZS 2210.2:2000

This Joint Australian/New Zealand Standard was prepared by Joint Technical Committee SF/3, Occupational Protective Footwear. It was approved on behalf of the Council of Standards Australia on 7 July 2000 and on behalf of the Council of Standards New Zealand on 14 July 2000. It was published on 25 September 2000.

The following interests are represented on Committee SF/3:

Association of Certification Bodies
Australian Podiatry Council
Australasian Fire Authorities Council
Bureau of Steel Manufacturers of Australia
Department of Defence, Australia
Department of Labour, New Zealand
Footwear Manufacturers Association of Australia
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Australian/New Zealand Standard™

Occupational protective footwear

Part 2: Requirements and test methods

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PREFACE

This Standard was prepared by the Joint Standards Australia/Standards New Zealand Committee SF/3, Occupational Protective Footwear to supersede (in part) AS/NZS 2210.2:1994, *Occupational protective footwear, Part 2: Specification*.

This Standard has been adopted with national modifications and has been reproduced from the International Standard ISO 8782-1:1998, *Safety, protective and occupational footwear for professional use, Part 1: Requirements and test methods*. Additional requirements for Australia and New Zealand are given in Appendix ZZ. Changes to the ISO text are indicated by a marginal bar. Appendices ZA and ZB provide test methods referenced from Appendix ZZ.

The objective of this Standard is to provide manufacturers and users with requirements for footwear intended for use in workplace applications.

As this Standard is reproduced from an International Standard, the following applies:

- (a) Its number appears on the cover and title page while the International Standard number appears only on the cover.
- (b) In the source text, 'this International Standard' should read 'this Australian/New Zealand Standard'.
- (c) A full point substitutes for a comma when referring to a decimal marker.

References to international Standards should be replaced by Australian or Australian/New Zealand Standards as follows:

| <i>Reference to International, European, British and SATRA Standards</i> | <i>Australian or Joint Australian/New Zealand Standard</i> |
|---|---|
| ISO | AS |
| 34 Rubber, vulcanized or thermoplastic— Determination of tear strength | 1683 Methods of test for elastomers 1683.12 Part 12: Rubber, vulcanized— |
| 34-1 Part 1: Trouser, angle and crescent test pieces | Determination of tear strength (trouser, angle and crescent test pieces) |
| 868 Plastics and ebonite—Determination of indentation hardness by means of a durometer (Shore hardness) | — |
| 1817 Rubber, vulcanized—Determination of the effect of liquids | 1180 Methods of test for hose made from elastomeric materials 1180.7E Part 7: Resistance to oil |
| 2023 Rubber footwear—Lined industrial vulcanized boots—Specification | — |
| 3376 Leather—Determination of tensile strength and elongation | — |
| 3377 Leather—Determination of tearing load | — |
| 4045 Leather—Determination of pH | — |
| 4643 Moulded plastics footwear— Lined or unlined poly (vinyl chloride) boots for general industrial use— Specification | — |

| ISO | | AS/NZS | |
|-------------------|---|-----------|---|
| 4648 | Rubber, vulcanized or thermoplastic —Determination of dimensions of test pieces and products for test purposes | — | |
| 4649 | Rubber—Determination or abrasion resistance using a rotating cylindrical drum device | — | |
| 4674 ¹ | Rubber- or plastics-coated fabrics— Determination of tear resistance | — | |
| 4674-1 | Part 1: Constant rate of tear methods | — | |
| 5423 | Moulded plastics footwear—Lined or unlined polyurethane boots for general industrial use—Specification | — | |
| 8782 | Safety, protective and occupational footwear for professional use | 2210 | Occupational protective footwear |
| 8782-2 | Part 2: Specification for safety footwear | 2210.3 | Part 3: Specification for safety footwear |
| 8782-3 | Part 3: Specification for protective footwear | 2210.4 | Part 4: Specification for protective footwear |
| 8782-4 | Part 4: Specification for occupational footwear | 2210.5 | Part 5: Specification for occupational footwear |
| | | 2001 | Methods of tests for textiles |
| | | 2001.4 | Method 4: Colourfastness tests |
| | | 2001.4.3 | Method 4.3: Determination of colourfastness to rubbing |
| | | 2001.4.17 | Method 17: Determination of colourfastness to perspiration |

Manufacturers have a grace period of two years from the date of publication to comply with this Standard.

Guidance for the selection, care and use of protective footwear is not covered by this Standard but is provided in AS/NZS 2210.1, *Occupational protective footwear, Part 1: Guide to selection, care and use*.²

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.

1 To be published (Revision of ISO 4674:1977)

2 In the course of revision

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AUSTRALIAN/NEW ZEALAND STANDARD

Occupational protective footwear

Part 2: Requirements and test methods

1 Scope

This part of ISO 8782 specifies requirements and, where appropriate, test methods to establish conformity with these requirements for footwear intended to protect the wearer's feet and legs against foreseeable hazards in a variety of working sectors.

This part of ISO 8782 can be used only in conjunction with ISO 8782-2, ISO 8782-3 or ISO 8782-4, which give requirements for footwear relating to specific levels of risk.

2 Normative references

The following standards contain provisions which, through reference in this text, constitute provisions of this part of ISO 8782. At the time of publication, the editions indicated were valid. All standards are subject to revision, and parties to agreements based on this part of ISO 8782 are encouraged to investigate the possibility of applying the most recent editions of the standards indicated below. Members of IEC and ISO maintain registers of currently valid International Standards.

ISO 34-1:1994, *Rubber, vulcanized or thermoplastic — Determination of tear strength — Part 1: Trouser, angle and crescent test pieces.*

ISO 868:1985, *Plastics and ebonite — Determination of indentation hardness by means of a durometer (Shore hardness).*

ISO 1817:—¹⁾, *Rubber, vulcanized — Determination of the effect of liquids.*

ISO 2023:1994, *Rubber footwear — Lined industrial vulcanized-rubber boots — Specification.*

ISO 3376:1976, *Leather — Determination of tensile strength and elongation.*

ISO 3377:1975, *Leather — Determination of tearing load.*

ISO 4045:1977, *Leather — Determination of pH.*

ISO 4643:1992, *Moulded plastics footwear — Lined or unlined poly(vinyl chloride) boots for general industrial use — Specification.*

ISO 4648:1991, *Rubber, vulcanized or thermoplastic — Determination of dimensions of test pieces and products for test purposes.*

ISO 4649:1985, *Rubber — Determination of abrasion resistance using a rotating cylindrical drum device.*

1) To be published. (Revision of ISO 1817:1985)