

Australian/New Zealand Standard™

Occupational protective clothing

Part 2: General requirements



AS/NZS 4501.2:2006

This Joint Australian/New Zealand Standard was prepared by Joint Technical Committee SF-004, Occupational Protective Clothing. It was approved on behalf of the Council of Standards Australia on 24 February 2006 and on behalf of the Council of Standards New Zealand on 3 March 2006.
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The following are represented on Committee SF-004:

AWTA Textile Testing
Apparel & Textile Federation of New Zealand
Association of Accredited Certification Bodies
Australasian Fire Authorities Council
Australian Business Limited
Australian Chamber of Commerce and Industry
Australian Industry Group
Council of Textile and Fashion Industries of Australia
Department of Consumer & Employment Protection, WorksSafe Division, WA
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Part 2: General requirements

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PREFACE

This Standard was prepared by the Joint Standards Australia/Standards New Zealand Committee SF-004, Occupational Protective Clothing to supersede AS/NZS 4501.2:1999, *Occupational protective clothing, Part 2: General requirements*.

This Standard is identical with, and has been reproduced from, EN 340:2003, *Protective clothing—General requirements*. The previous edition of AS/NZS 4501.2 was a modified adoption of ISO 13688:1998. This International Standard is now being revised based on EN 340:2003, and is not due for publication for several years. It is the Committee's intention to adopt it once it is published.

The objective of this Standard is to provide basic requirements for protective clothing. It is not intended to be used alone but in combination with a specific Standard.

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

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

References to International and European Standards should be replaced with Australian or Australian/New Zealand Standards, as follows:

<i>Reference to International Standard</i>		<i>Australian/New Zealand Standard</i>	
EN		AS/NZS	
420	General requirements for gloves	2161	Occupational protective gloves
		2161.2	Part 2: General requirements
ISO			
3758	Textiles—Care labelling code using symbols	1957	Textile—Care labelling
EN		AS	
6330	Textiles—Domestic washing and drying procedure for textile testing	2001	Methods of test for textiles
		2001.5.4	Method 5.4: Dimensional change—Domestic washing and drying procedures for textile testing (ISO 6330:2000, MOD)
105	Textiles—Test for colour fastness (all parts)	2001.4	Part 4: Colourfastness tests (all parts)

Only European or International referenced documents that have an Australian/New Zealand replacement have been listed.

In the course of considering adoption of this Standard, Committee SF-004 agreed that the reader's attention should be drawn to the following point:

The size of the designation in Clause 6 is intended for guidance only; Standards for clothing sizing are currently under revision in Australia and New Zealand.

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

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INTRODUCTION

This European Standard is a reference standard to be called up as appropriate by specific standards. This standard cannot be used alone but only in combination with another standard containing requirements for specific performance of a product in providing protection. If specific requirements are needed, they should be specified in the appropriate standard for those products.

The revision of the standard EN 340:1993 led to the following main changes in this new standard edition:

- Basic health and ergonomic requirements including test methods have been added (see clause 4). Most of the requirements will effect the suppliers of materials to garment manufacturers. Other requirements will be important for the garment manufacturers to comply with specific product standards.
- An industrial washing test procedure has been included in clause 5 because this kind of washing is frequently applied to many types of protective clothing.
- The size designation system in clause 6 has been improved to take account of the size requirements of EN 13402 series.
- A new annex C (informative) has been introduced as a guide to develop specifications for practical performance tests in product standards.

AUSTRALIAN/NEW ZEALAND STANDARD

Occupational protective clothing

Part 2: General requirements

1 Scope

This European Standard specifies general performance requirements for ergonomics, innocuousness, size designation, ageing, compatibility and marking of protective clothing and the information to be supplied by the manufacturer with the protective clothing.

2 Normative references

This European Standard incorporates by dated or undated reference, provisions from other publications. These normative references are cited at the appropriate places in the text and the publications are listed hereafter. For dated references, subsequent amendments to or revisions of any of these publications apply to this European Standard only when incorporated in it by amendment or revision. For undated references the latest edition of the publication referred to applies (including amendments).

EN 420, *General requirements for gloves*

EN 1413, *Textiles — Determination of pH of aqueous extract*

EN 1811, *Reference test method for release of nickel from products intended to come into direct and prolonged contact with the skin*

EN 13402-1, *Size designation of clothes — Part 1: Terms, definitions and body measurement procedure (ISO 3635:1981, modified)*

EN 13402-2, *Size designation of clothes - Part 2: Primary and secondary dimensions*

prEN 13402-3, *Size designation of clothes — Part 3: Measurements and intervals.*

prEN 14362-1, *Textiles — Methods for the detection and determination of certain aromatic amines derived from azo colorants — Part 1: Detection of the use of certain azo colorants accessible without extraction.*

EN 23758, *Textiles — Care labelling code using symbols (ISO 3758:1991)*

EN 25077, *Textiles; determination of dimensional change in washing and drying (ISO 5077:1984)*

EN ISO 3175-1, *Textiles - Dry-cleaning and finishing - Part 1: Method for assessing the cleanability of textiles and garments (ISO 3175-1:1998)*

EN ISO 3175-2, *Textiles — Dry-cleaning and finishing — Part 2: Procedures for tetrachloroethene (ISO 3175-2:1998)*

EN ISO 4045, *Leather - Determination of pH (ISO 4045:1977)*

EN ISO 6330, *Textiles — Domestic washing and drying procedures for textile testing (ISO 6330:2000)*

EN ISO 105, *Textiles — Test for colour fastness (all parts)*

ISO 7000, *Graphical symbols for use on equipment - Index and synopsis*

ISO 15797, *Textiles — Industrial washing and finishing procedures for testing of workwear*

3 Terms and definitions

For the purposes of this European Standard the following terms and definitions apply.

3.1

ageing

change of one or more initial properties of protective clothing materials during the passage of time