

AS/NZS 4502.2:1997
ISO 9151:1995

AS/NZS 4502.2

Australian/New Zealand Standard[®]

Methods for evaluating clothing for protection against heat and fire

Part 2: Evaluation of heat transmission of materials and material assemblies when exposed to flame

[ISO title: Protective clothing against heat and flame—Determination of heat transmission on exposure to flame]



AS/NZS 4502.2:1997

This Joint Australian/New Zealand Standard was prepared by Joint Technical Committee SF/4, Occupational Protective Clothing. It was approved on behalf of the Council of Standards Australia on 15 August 1997 and on behalf of the Council of Standards New Zealand on 4 August 1997. It was published on 5 November 1997.

The following interests are represented on Committee SF/4:

Australian Association of Certification Bodies
 Australian Business Limited
 Australian Chamber of Manufactures
 Australian Chamber of Commerce and Industry
 Australasian Fire Authorities Council
 Australian Wool Processors Council
 Australian Wool Research and Promotion Organisation
 Australian Wool Testing Authority
 Bureau of Steel Manufactures of Australia
 Confederation of Australian Motor Sport
 Country Fire Authority of Victoria
 Department of Defence
 National Occupational Health and Safety Commission
 Safety Institute of Australia
 Textile Clothing and Footwear Union of Australia
 Transit New Zealand
 United Firefighters Union of Australia
 University of Otago, New Zealand
 Victorian WorkCover Authority
 WorkSafe Western Australia

Review of Standards. To keep abreast of progress in industry, Joint Australian/New Zealand Standards are subject to periodic review and are kept up to date by the issue of amendments or new editions as necessary. It is important therefore that Standards users ensure that they are in possession of the latest edition, and any amendments thereto.

Full details of all Joint Standards and related publications will be found in the Standards Australia and Standards New Zealand Catalogue of Publications; this information is supplemented each month by the magazines 'The Australian Standard' and 'Standards New Zealand', which subscribing members receive, and which give details of new publications, new editions and amendments, and of withdrawn Standards.

Suggestions for improvements to Joint Standards, addressed to the head office of either Standards Australia or Standards New Zealand, are welcomed. Notification of any inaccuracy or ambiguity found in a Joint Australian/New Zealand Standard should be made without delay in order that the matter may be investigated and appropriate action taken.

This Standard was issued in draft form for comment as DR 95474.



Documents

Document Sharing Hub

AS/NZS 4502.2:1997

Australian/New Zealand Standard[®]

**Methods for evaluating clothing for
protection against heat and fire**

**Part 2: Evaluation of heat
transmission of materials and
material assemblies when exposed
to flame**

First published as AS/NZS 4502.2:1997.

PUBLISHED JOINTLY BY:

STANDARDS AUSTRALIA
1 The Crescent,
Homebush NSW 2140 Australia

STANDARDS NEW ZEALAND
Level 10, Radio New Zealand House,
155 The Terrace,
Wellington 6001 New Zealand

PREFACE

This Standard was prepared by the Joint Standards Australia/Standards New Zealand Committee SF/4 on Occupational Protective Clothing.

The objective of this Standard is to provide means for assessing the behaviour of materials used in the manufacture of protective clothing when exposed to flame.

This Standard is identical with and has been reproduced from ISO 9151:1995, *Protective clothing against heat and flame—Determination of heat transmission on exposure to flame*.

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

- (a) Its number appears only on the cover and title pages 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 equivalent Australian, New Zealand or Australian/New Zealand Standards as follows:

<i>References to International Standards</i>		<i>Australian or Joint Australian/New Zealand Standard</i>
ISO		AS/NZS
139	Textiles—Standard atmosphere for conditioning and testing	—
IEC		—
584-1	Thermocouples Part 1: Reference tables	

© Copyright — STANDARDS AUSTRALIA/STANDARDS NEW ZEALAND

Users of Standards are reminded that copyright subsists in all Standards Australia and Standards New Zealand publications and software. Except where the Copyright Act allows and except where provided for below no publications or software produced by Standards Australia or Standards New Zealand may be reproduced, stored in a retrieval system in any form or transmitted by any means without prior permission in writing from Standards Australia or Standards New Zealand. Permission may be conditional on an appropriate royalty payment. Australian requests for permission and information on commercial software royalties should be directed to the head office of Standards Australia. New Zealand requests should be directed to Standards New Zealand.

Up to 10 percent of the technical content pages of a Standard may be copied for use exclusively in-house by purchasers of the Standard without payment of a royalty or advice to Standards Australia or Standards New Zealand.

Inclusion of copyright material in computer software programs is also permitted without royalty payment provided such programs are used exclusively in-house by the creators of the programs.

Care should be taken to ensure that material used is from the current edition of the Standard and that it is updated whenever the Standard is amended or revised. The number and date of the Standard should therefore be clearly identified.

The use of material in print form or in computer software programs to be used commercially, with or without payment, or in commercial contracts is subject to the payment of a royalty. This policy may be varied by Standards Australia or Standards New Zealand at any time.

CONTENTS

	<i>Page</i>
1 Scope	1
2 Normative references	1
3 Definitions	1
4 Principle	1
5 Apparatus	1
6 Precautions	4
7 Sampling	4
8 Conditioning and testing atmospheres	5
9 Test procedure	5
10 Test report	6
 Annexes	
A Availability of materials	7
B Specimen test report form	8
C Significance of the heat transfer test	9