

Protective clothing for firefighters — Requirements and test methods for protective clothing used for structural firefighting



### AS 4967:2019

This Australian Standard® was prepared by SF-049, Firefighters Personal Protective Equipment. It was approved on behalf of the Council of Standards Australia on 3 June 2019.

This Standard was published on 25 June 2019.

United Firefighters Union of Australia VicLabs (Testing Interests Australia)

The following are represented on Committee SF-049:

Association of Accredited Certification Bodies
Australasian Fire and Emergency Service Authorities Council
Australian Chamber of Commerce and Industry
Australian Fashion Council
Australian Industry Group
AWTA Product Testing (Testing Interests Australia)
BSI Group Australian and New Zealand (Certification Bodies)
CSIRO
Department of Defence (Australian Government)
Footwear Manufacturers Association of Australia
NSW Rural Fire Service Association

This Standard was issued in draft form for comment as DR AS 4967:2018.

### **Keeping Standards up-to-date**

Ensure you have the latest versions of our publications and keep up-to-date about Amendments, Rulings, Withdrawals, and new projects by visiting: <a href="https://www.standards.org.au">www.standards.org.au</a>



# Protective clothing for firefighters — Requirements and test methods for protective clothing used for structural firefighting

Originated as AS 4967(Int)—2001. Previous edition AS/NZS 4967:2009. Fourth edition AS 4967:2019.

### **COPYRIGHT**

© Standards Australia Limited 2019

All rights are reserved. No part of this work may be reproduced or copied in any form or by any means, electronic or mechanical, including photocopying, without the written permission of the publisher, unless otherwise permitted under the Copyright Act 1968 (Cth).

## **Preface**

This Standard was prepared by the Joint Standards Australia/Standards New Zealand Committee SF-049, Firefighters Personal Protective Equipment, to supersede AS/NZS 4967:2009.

After consultation with stakeholders in both countries, Standards Australia and Standards New Zealand decided to develop this Standard as an Australian Standard rather than an Australian/New Zealand Standard.

The objective of this Standard is to provide manufacturers, suppliers, laboratories and end users with a clear statement of the minimum requirements for apparel for structural firefighters.

Standards Australia thanks the International Organization for Standardization (ISO) for permission to reproduce definitions from ISO 11999-1:2015. These definitions are copyright of ISO, Geneva, Switzerland. All rights reserved.

Changes to this edition include the revision and updating of referenced documents such as the following:

- (a) Replacement of references to EN 340 with ISO 13688.
- (b) Replacement of references to AS/NZS 4360 with AS/NZS ISO 31000.
- (c) Replacement of references to AS 2001.5.4 with ISO 6330.
- (d) Replacement of references to AS 2001.2.3.1 with ISO 13934-1.
- (e) Replacement of references to ISO 12127 with ISO 12127-1.
- (f) Replacement of references to EN 20811 with ISO 811.
- (g) Replacement of references to ISO 13506 with ISO 13506-1 and ISO 13506-2.

In the longer term, the Committee is committed to developing a single standard for all items of personal protective equipment used for structural firefighting.

Notes are used in this Standard to provide additional information to explain, or assist in the understanding of, the text, figure or table.

The terms "normative" and "informative" are used in Standards to define the application of the appendices to which they apply. A "normative" appendix is an integral part of a Standard, whereas an "informative" appendix is only for information and guidance.

# **Contents**

Prefacei Introduction					
1.1	Scope				
1.2	Normative references				
1.3	Terms and definitions				
Section 2					
Section 3	Design	8			
3.1	General clothing design				
3.2	Design requirements				
	3.2.1 Garment design	8			
	3.2.2 Configuration	8			
3.3	Restriction of movement.				
3.4	Seams				
3.5	Hardware				
3.6	Closure systems				
3.7	High visibility trim				
3.8	Sleeve ends				
3.9	Trouser ends				
3.10	Neck protection				
3.11	Closhing mass				
3.12 3.13	Cleaning and decontamination Innocuousness				
3.13	Compatibility				
3.14	Inspection				
Section 4	Performance requirements				
4.1	Sampling and pre-treatment				
	4.1.1 Specimens				
	4.1.2 Number and size of specimens				
	4.1.3 Pre-treatment				
4.2	4.1.4 Conditioning				
4.2	Thermal requirements 4.2.1 Limited flame spread				
	4.2.2 Heat transfer (flame exposure)				
	4.2.3 Heat transfer (radiation exposure)				
	4.2.4 Residual strength of material when exposed to radiant heat	12			
4.3	Heat resistance				
110	4.3.1 Materials and hardware				
	4.3.2 Threads				
4.4	Tensile strength				
	4.4.1 Outer material	13			
	4.4.2 Main seams	13			
4.5	Tear strength	13			
4.6	Conductive compressive heat resistance	13			
4.7	Abrasion resistance				
4.8	Surface wetting				
4.9	Resistance to water and liquid chemicals				
	4.9.1 General				
	4.9.2 Penetration by liquid chemicals				
4.40	4.9.3 Water penetration				
4.10	Water vapour resistance				
4.11	Dimensional change				
4.12	High visibility trim performance	15			



The is a new provider i arenade and chare publication at the limit below	This is a free preview.	Purchase the	entire publication	at the link below:
--	-------------------------	--------------	--------------------	--------------------

**Product Page** 

- Dooking for additional Standards? Visit Intertek Inform Infostore
- Dearn about LexConnect, All Jurisdictions, Standards referenced in Australian legislation