
**Protective clothing for firefighters —
Laboratory test methods and
performance requirements for
wildland firefighting clothing**

*Habillement de protection pour sapeurs-pompiers — Méthodes
d'essai en laboratoire et exigences de performance pour vêtements
portés pendant la lutte contre les feux d'espaces naturels*

iteh Standards
(<https://standards.iteh.ai>)
Document Preview

ISO 15384:2018

<https://standards.iteh.ai/catalog/standards/iso/880092e4-c27b-4dc0-8ed1-b25fe379f468/iso-15384-2018>



iTeh Standards
(<https://standards.iteh.ai>)
Document Preview

ISO 15384:2018

<https://standards.iteh.ai/catalog/standards/iso/880092e4-c27b-4dc0-8ed1-b25fe379f468/iso-15384-2018>



COPYRIGHT PROTECTED DOCUMENT

© ISO 2018

All rights reserved. Unless otherwise specified, or required in the context of its implementation, no part of this publication may be reproduced or utilized otherwise in any form or by any means, electronic or mechanical, including photocopying, or posting on the internet or an intranet, without prior written permission. Permission can be requested from either ISO at the address below or ISO's member body in the country of the requester.

ISO copyright office
CP 401 • Ch. de Blandonnet 8
CH-1214 Vernier, Geneva
Phone: +41 22 749 01 11
Fax: +41 22 749 09 47
Email: copyright@iso.org
Website: www.iso.org

Published in Switzerland

Contents

Page

Foreword	iv
Introduction	v
1 Scope	1
2 Normative references	1
3 Terms and definitions	2
4 Clothing design	4
4.1 General	4
4.2 Collar	4
4.3 Protective coverall or protective suit	4
4.4 Pockets	5
4.5 Hardware	5
4.6 Retroreflective and/or fluorescent materials	5
4.7 Sleeves	5
4.8 Trousers	5
5 Sampling and pre-treatment	6
5.1 General	6
5.2 Sampling	6
5.3 Pre-treatment by cleaning	6
5.4 Conditioning	6
5.5 Exposure surface	6
5.6 Ageing	6
6 Thermal requirements	7
6.1 Flamespread	7
6.1.1 General	7
6.1.2 Face ignition	7
6.1.3 Edge ignition	7
6.2 Heat transfer (radiation)	8
6.3 Heat resistance	8
6.3.1 Heat resistance of the sewing thread	8
6.3.2 Heat resistance of retroreflective/fluorescent materials	8
7 Mechanical requirements	8
7.1 Tensile strength	8
7.2 Tear strength	8
7.3 Main seam strength	8
8 Ergonomic and comfort requirements	9
8.1 Thermal resistance	9
8.2 Water vapour resistance	9
9 General	9
9.1 Dimensional change after washing and/or dry-cleaning	9
9.2 Retroreflective and/or fluorescent performance	9
9.3 Summary of performance requirements	9
10 Marking and labelling	11
10.1 General	11
10.2 Label durability and legibility	11
10.3 Compliance marking requirements	11
11 Information supplied by the manufacturer	12
Annex A (normative) Uncertainty of measurement and determination of property values for the rating and classification	13
Bibliography	14

Foreword

ISO (the International Organization for Standardization) is a worldwide federation of national standards bodies (ISO member bodies). The work of preparing International Standards is normally carried out through ISO technical committees. Each member body interested in a subject for which a technical committee has been established has the right to be represented on that committee. International organizations, governmental and non-governmental, in liaison with ISO, also take part in the work. ISO collaborates closely with the International Electrotechnical Commission (IEC) on all matters of electrotechnical standardization.

The procedures used to develop this document and those intended for its further maintenance are described in the ISO/IEC Directives, Part 1. In particular the different approval criteria needed for the different types of ISO documents should be noted. This document was drafted in accordance with the editorial rules of the ISO/IEC Directives, Part 2 (see www.iso.org/directives).

Attention is drawn to the possibility that some of the elements of this document may be the subject of patent rights. ISO shall not be held responsible for identifying any or all such patent rights. Details of any patent rights identified during the development of the document will be in the Introduction and/or on the ISO list of patent declarations received (see www.iso.org/patents).

Any trade name used in this document is information given for the convenience of users and does not constitute an endorsement.

For an explanation on the voluntary nature of standards, the meaning of ISO specific terms and expressions related to conformity assessment, as well as information about ISO's adherence to the World Trade Organization (WTO) principles in the Technical Barriers to Trade (TBT) see the following URL: www.iso.org/iso/foreword.html.

This document was prepared by Technical Committee ISO/TC 94, *Personal safety — Protective clothing and equipment*, Subcommittee SC 14, *Fire-fighters' personal equipment*.

This second edition cancels and replaces the first edition of ISO 15384:2003 which has been technically revised.

[ISO 15384:2018](https://standards.iteh.ai/catalog/standards/iso/880092e4-c27b-4dc0-8ed1-b25fe379f468/iso-15384-2018)

<https://standards.iteh.ai/catalog/standards/iso/880092e4-c27b-4dc0-8ed1-b25fe379f468/iso-15384-2018>