INTERNATIONAL STANDARD

ISO 15025

First edition 2000-05-01

Protective clothing — Protection against heat and flame — Method of test for limited flame spread

Vêtements de protection — Protection contre la chaleur et les flammes — Méthode d'essai pour la propagation de flamme limitée



PDF disclaimer

This PDF file may contain embedded typefaces. In accordance with Adobe's licensing policy, this file may be printed or viewed but shall not be edited unless the typefaces which are embedded are licensed to and installed on the computer performing the editing. In downloading this file, parties accept therein the responsibility of not infringing Adobe's licensing policy. The ISO Central Secretariat accepts no liability in this area.

Adobe is a trademark of Adobe Systems Incorporated.

Details of the software products used to create this PDF file can be found in the General Info relative to the file; the PDF-creation parameters were optimized for printing. Every care has been taken to ensure that the file is suitable for use by ISO member bodies. In the unlikely event that a problem relating to it is found, please inform the Central Secretariat at the address given below.

This document is a preview denetated by this

© ISO 2000

All rights reserved. Unless otherwise specified, no part of this publication may be reproduced or utilized in any form or by any means, electronic or mechanical, including photocopying and microfilm, without permission in writing from either ISO at the address below or ISO's member body in the country of the requester.

ISO copyright office Case postale 56 • CH-1211 Geneva 20 Tel. + 41 22 749 01 11 Fax + 41 22 734 10 79 E-mail copyright@iso.ch Web www.iso.ch

Printed in Switzerland

Con	ntents	Page
Forev	word	iv
ntroc	duction	v
1	Scope	1
2	Terms and definitions	1
3	Principle	
4	Health and safety of test operators	2
5	Reagents	2
6	Apparatus	2
7 7.1 7.2	Sampling and sample preparation	
8 8.1 8.2	Procedure	8 8 10
9	Precision	11
10	Test reportex A (normative) Description and construction of the burner	11
Anne	ex A (normative) Description and construction of the burner	13
A	y D (informative) Experimental techniques	4.4
Annex C (normative) Measurement of char length		15
Bibliography		16
	ex C (normative) Measurement of char length	

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.

International Standards are drafted in accordance with the rules given in the ISO/IEC Directives, Part 3.

Draft International Standards adopted by the technical committees are circulated to the member bodies for voting. Publication as an International Standard requires approval by at least 75 % of the member bodies casting a vote.

Attention is drawn to the possibility that some of the elements of this International Standard may be the subject of patent rights. ISO shall not be held responsible for identifying any or all such patent rights.

International Standard ISO 15025 was prepared by Technical Committee ISO/TC 94, *Personal safety — Protective clothing and equipment*, Subcommittee SC 13 *Protective clothing*.

Annexes A and C form a normative part of ISO 15006. Annex B is for information only.

įν

Introduction

This International Standard was initially prepared by Technical Committee ISO/TC38/SC19 as part of the revision of ISO 6940 and ISO 6941. This specific work item was transferred to Technical Committee ISO/TC 94/SC 13 in April 1997.

This method of test is closely related to the method of test specified in ISO 6941. It uses the same basic equipment but a smaller specimen holder and template. Materials which do not burn to the upper or vertical edges of the smaller test specimen use in this test may be classified as producing limited flame spread.

This method assesses the properties of textile fabrics in response to a short contact with a small igniting flame under controlled conditions. Results may not apply to situations where there is restricted air supply or exposure to large sources of intense heat.

The influence of seams on the behaviour of fabrics can be determined by this method, the seam being positioned within the test specimen so as to be supected to the test flame.

Whenever practicable, trimmings should be tested as part of the fabric assembly on which they are or will be used. A list of standards related to ISO 15025 is given in the Bibliography.

Dreview Generated by FLS

© ISO 2000 - All rights reserved

Inis document is a preview denetated by EUS

Protective clothing — Protection against heat and flame — Method of test for limited flame spread

1 Scope

This International Standard specifies a method for the measurement of limited flame spread properties of vertically oriented textile fabrics and inclustrial products in the form of single or multi-component fabrics (coated, quilted, multilayered, sandwich constructions, and similar combinations), when subjected to a small defined flame.

This test method is not appropriate for materials that demonstrate extensive melting or shrinkage.

2 Terms and definitions

For the purposes of this International Standar the following terms and definitions apply.

2.1

flame application time

time for which the ignition flame is applied to the test specimer

2.2

afterflame time

duration of flame

length of time for which a material continues to flame, under the specified test conditions, after the ignition source has been removed

NOTE Afterflame time is measured to the nearest second and afterflame times of less than 1,0 s should be recorded as zero.

2.3

afterglow

persistence of glowing combustion of a material under specified test conditions, after cessation of flaming or, if no flaming occurs, after removal of the ignition source

NOTE Afterglow is a continuation of combustion with the evolution of heat and light but without flame. Some materials absorb heat during the flame application and continue to emit this absorbed heat after removal of the igniting flame. This glowing without combustion should not be recorded as afterglow.

2.4

afterglow time

duration of afterglow

time for which a material continues to afterglow, under specified test conditions after cessation of flaming or after removal of the ignition source

NOTE Afterglow time is measured to the nearest second and afterglow times of less than 1,0 s should be recorded as zero.

2.5

char

formation of a brittle residue when material is exposed to thermal energy

© ISO 2000 – All rights reserved