

This is a preview of "ISO 6941:2003". [Click here to purchase the full version from the ANSI store.](#)

Second edition  
2003-11-15

---

---

## **Textile fabrics — Burning behaviour — Measurement of flame spread properties of vertically oriented specimens**

*Textiles — Comportement au feu — Détermination des propriétés de  
propagation de flamme d'éprouvettes orientées verticalement*



Reference number  
ISO 6941:2003(E)

© ISO 2003

This is a preview of "ISO 6941:2003". [Click here to purchase the full version from the ANSI store.](#)

**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.

© ISO 2003

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 22 749 09 47  
E-mail [copyright@iso.org](mailto:copyright@iso.org)  
Web [www.iso.org](http://www.iso.org)

Published in Switzerland

This is a preview of "ISO 6941:2003". [Click here to purchase the full version from the ANSI store.](#)

## Contents

Page

<b>Foreword</b> .....	<b>iv</b>
<b>Introduction</b> .....	<b>v</b>
<b>1 Scope</b> .....	<b>1</b>
<b>2 Normative references</b> .....	<b>1</b>
<b>3 Terms and definitions</b> .....	<b>1</b>
<b>4 Principle</b> .....	<b>1</b>
<b>5 Apparatus</b> .....	<b>2</b>
<b>6 Precautions</b> .....	<b>5</b>
<b>7 Sampling</b> .....	<b>7</b>
<b>8 Conditioning and testing atmosphere</b> .....	<b>8</b>
<b>9 Setting up the apparatus</b> .....	<b>8</b>
<b>10 Test procedure</b> .....	<b>9</b>
<b>11 Precision</b> .....	<b>10</b>
<b>12 Test report</b> .....	<b>10</b>
<b>Annex A (normative) Description and construction of the burner</b> .....	<b>12</b>
<b>Annex B (informative) Experimental techniques</b> .....	<b>13</b>

This is a preview of "ISO 6941:2003". [Click here to purchase the full version from the ANSI store.](#)

## 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 2.

The main task of technical committees is to prepare International Standards. 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 document may be the subject of patent rights. ISO shall not be held responsible for identifying any or all such patent rights.

ISO 6941 was prepared by Technical Committee ISO/TC 38, *Textiles*, Subcommittee SC 19, *Burning behaviour of textiles and textile products*.

This second edition cancels and replaces the first edition (ISO 6941:1984), which has been technically revised.

This is a preview of "ISO 6941:2003". [Click here to purchase the full version from the ANSI store.](#)

## Introduction

This method is one of two closely related methods of test for the inflammability of textile fabrics. This method determines the “flame spread time” — vocabulary in relation to the term defined in ISO 4880 — the other method observes and measures “ease of ignition” (see ISO 6940).

This method assesses the properties of textile fabrics in response to flame contact 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 subjected to the test flame. Whenever practicable, trimmings should be tested as part of the fabric assembly on which they are or will be used.