

**Kangasmaterjalid. Põlemisomadused.
Süttimiskalduvuse määramine vertikaalsetel proovidel**

Textile fabrics - Burning behaviour - Determination of ease of ignition of vertically oriented specimens

EESTI STANDARDI EESSÕNA

NATIONAL FOREWORD

<p>Käesolev Eesti standard EVS-EN ISO 6940:1999 sisaldab Euroopa standardi EN ISO 6940:1995 ingliskeelset teksti.</p> <p>Standard on kinnitatud Eesti Standardikeskuse 12.12.1999 käskkirjaga ja jõustub sellekohase teate avaldamisel EVS Teatajas.</p> <p>Euroopa standardimisorganisatsioonide poolt rahvuslikele liikmetele Euroopa standardi teksti kättesaadavaks tegemise kuupäev on .</p> <p>Standard on kättesaadav Eesti standardiorganisatsioonist.</p>	<p>This Estonian standard EVS-EN ISO 6940:1999 consists of the English text of the European standard EN ISO 6940:1995.</p> <p>This standard is ratified with the order of Estonian Centre for Standardisation dated 12.12.1999 and is endorsed with the notification published in the official bulletin of the Estonian national standardisation organisation.</p> <p>Date of Availability of the European standard text .</p> <p>The standard is available from Estonian standardisation organisation.</p>
--	---

ICS 13.220.40, 59.080.30

Võtmesõnad: kangad, katsed, katseseadmed, määramine, põletid, põlevuskatsed, süttimine, tekstiilid,

Standardite reprodutseerimis- ja levitamiseõigus kuulub Eesti Standardikeskusele

Andmete paljundamine, taastekitamine, kopeerimine, salvestamine elektroonilisse süsteemi või edastamine ükskõik millises vormis või millisel teel on keelatud ilma Eesti Standardikeskuse poolt antud kirjaliku loata.

Kui Teil on küsimusi standardite autorikaitse kohta, palun võtke ühendust Eesti Standardikeskusega:
Aru 10 Tallinn 10317 Eesti; www.evs.ee; Telefon: 605 5050; E-post: info@evs.ee

Right to reproduce and distribute belongs to the Estonian Centre for Standardisation

No part of this publication may be reproduced or utilized in any form or by any means, electronic or mechanical, including photocopying, without permission in writing from Estonian Centre for Standardisation.

If you have any questions about standards copyright, please contact Estonian Centre for Standardisation:
Aru str 10 Tallinn 10317 Estonia; www.evs.ee; Phone: 605 5050; E-mail: info@evs.ee

ICS 13.220.40; 59.080.30

Descriptors: textiles, fabrics, tests, fire tests, determination, ignition, test equipment, burners

English version

**Textile fabrics - Burning behaviour - Determination
of ease of ignition of vertically oriented specimens
(ISO 6940:1984, including Amendment 1:1993)**

Textiles - Comportement au feu - Détermination
de la facilité d'allumage d'éprouvettes
orientées verticalement (ISO 6940:1984,
amendement 1:1993 inclus)

Textilien - Brennverhalten - Bestimmung der
Entzündbarkeit vertikal angeordneter Proben
(ISO 6940:1984, einschließlich Änderung 1:1993)

This European Standard was approved by CEN on 1995-01-02. CEN members are bound to comply with the CEN/CENELEC Internal Regulations which stipulate the conditions for giving this European Standard the status of a national standard without any alteration.

Up-to-date lists and bibliographical references concerning such national standards may be obtained on application to the Central Secretariat or to any CEN member.

The European Standards exist in three official versions (English, French, German). A version in any other language made by translation under the responsibility of a CEN member into its own language and notified to the Central Secretariat has the same status as the official versions.

CEN members are the national standards bodies of Austria, Belgium, Denmark, Finland, France, Germany, Greece, Iceland, Ireland, Italy, Luxembourg, Netherlands, Norway, Portugal, Spain, Sweden, Switzerland and United Kingdom.

CEN

European Committee for Standardization
Comité Européen de Normalisation
Europäisches Komitee für Normung

Central Secretariat: rue de Stassart, 36 B-1050 Brussels

Foreword

This European Standard has been prepared by the Technical Committee CEN/TC 248 "Textiles and textile products", the secretariat of which is held by BSI.

This European Standard shall be given the status of a National Standard, either by publication of an identical text or by endorsement, at the latest by July 1995, and conflicting national standards shall be withdrawn at the latest by July 1995.

According to the CEN/CENELEC Internal Regulations, the following countries are bound to implement this European Standard: Austria, Belgium, Denmark, Finland, France, Germany, Greece, Iceland, Ireland, Italy, Luxembourg, Netherlands, Norway, Portugal, Spain, Sweden, Switzerland, United Kingdom.

Endorsement Notice

The text of the International Standard ISO 6940:1984, including Amendment 1:1993 was approved by CEN as a European Standard without any modification.

NOTE: Normative references to international publications are listed in annex ZA (normative).

International Standard



6940

INTERNATIONAL ORGANIZATION FOR STANDARDIZATION • МЕЖДУНАРОДНАЯ ОРГАНИЗАЦИЯ ПО СТАНДАРТИЗАЦИИ • ORGANISATION INTERNATIONALE DE NORMALISATION

Textile fabrics — Burning behaviour — Determination of ease of ignition of vertically oriented specimens

Textiles — Comportement au feu — Détermination de la facilité d'allumage d'éprouvettes orientées verticalement

First edition — 1984-09-15

UDC 677.064 : 620.1 : 677.017.56

Ref. No. ISO 6940-1984 (E)

Descriptors: textiles, fabrics, tests, fire tests, determination, ignition, test equipment, burners.

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. Every 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.

Draft International Standards adopted by the technical committees are circulated to the member bodies for approval before their acceptance as International Standards by the ISO Council. They are approved in accordance with ISO procedures requiring at least 75 % approval by the member bodies voting.

International Standard ISO 6940 was prepared by Technical Committee ISO/TC 38, *Textiles*.

Textile fabrics — Burning behaviour — Determination of ease of ignition of vertically oriented specimens

1 Scope and field of application

This International Standard specifies a method for the measurement of ease of ignition of vertically oriented textile fabrics intended for apparel, curtains and draperies in the form of single- or multi-component (coated, quilted, multilayered, sandwich construction and similar combinations) fabrics.

This method should be used solely to assess the properties of materials or systems in response to heat and flame under controlled conditions. Results may not apply to situations where there is restricted air supply or prolonged exposure to large sources of intense heat as in a conflagration.

2 References

ISO 139, *Textiles — Standard atmospheres for conditioning and testing*.

ISO 4880, *Burning behaviour of textiles and textile products — Vocabulary*.

ISO 4916, *Textiles — Seam types — Classification and terminology*.

3 Definition

For the purpose of this International Standard, the following definition applies (see ISO 4880):

3.1 minimum ignition time: Minimum time of exposure of a material to an ignition source to obtain sustained combustion under specified test conditions.

4 Principle

A defined ignition flame from a specified burner is applied to textile specimens which are vertically oriented. The time necessary to achieve ignition is determined as the mean of the measured times for ignition of the fabric.

NOTE — Attention is drawn to annex C regarding quality of experimental techniques.

5 Health and safety of test operators

Burning of textiles may produce smoke and toxic gases which can affect the health of operators. The testing area should be cleared of smoke and fumes by suitable means.

6 Apparatus and materials

6.1 Construction of testing equipment

Some products of combustion are corrosive. The equipment should be constructed of material which will not be adversely affected by the fumes.

6.2 Location of test

A location in which the air movement is less than 0,2 m/s at the commencement of the test and is not further influenced by mechanical devices operating during the test is required. The volume of air surrounding the test location shall be such that the test is not affected by any reduction of oxygen concentration. Where an open-fronted cabinet is used for the test, provision shall be made to permit the specimen to be mounted at least 300 mm from any wall.

6.3 Templates

Flat rigid templates made of suitable material and of a size corresponding to the size of the specimens shall be used. Holes approximately 2 mm diameter are drilled in each corner of the template and positioned so that the distances between the centres of the holes correspond to the distances between the pins on the frame (see figure 1). The holes shall be located equidistant about the vertical centrelines of the template (see the note in 7.2).

6.4 Specimen holders

6.4.1 Two specimen holders, each consisting of a metal frame on which are mounted 4 pins to support the test specimen (see figure 1). One specimen holder (No. 1) is for specimens 80 mm × 80 mm, the other specimen holder (No. 2) is for specimens 200 mm × 80 mm. The pins for supporting the specimen have a maximum diameter of 2 mm and a minimum length of 27 mm for locating the specimen in a plane at least 20 mm away from the frame.

NOTE — For the purpose of locating the specimen in a plane away from the frame, spacer stubs 2 mm diameter may be provided adjacent to the pins.

6.4.2 If provision is made for multiple testing of specimens on the No. 1 specimen holder, the location of the pins shall be such that a space of 10 mm is provided between adjacent mounted specimens.