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**Tekstilije in tekstilni izdelki - Gorljivost industrijskih in tehnicnih tekstilij -  
Postopek ugotavljanja razseznosti plamena na vertikalno orientirane vzorce**

Textiles and textile products - Burning behaviour of industrial and technical textiles -  
Procedure to determine the flame spread of vertically oriented specimens

Textilien und textile Erzeugnisse - Brennverhalten industrieller und technischer Textilien -  
Verfahren zur Bestimmung der Flammenausbreitung vertikal angeordneter Meßproben

Textiles et produits textiles - Comportement au feu des textiles industriels et techniques -  
Méthode de détermination de la propagation de la flamme des éprouvettes orientées  
verticalement

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**Ta slovenski standard je istoveten z: EN 1624:1999**

**ICS:**

13.220.40	Sposobnost vžiga in obnašanje materialov in proizvodov pri gorenju	Ignitability and burning behaviour of materials and products
59.080.30	Tkanine	Textile fabrics

**SIST EN 1624:1999****en**

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EUROPEAN STANDARD  
NORME EUROPÉENNE  
EUROPÄISCHE NORM

**EN 1624**

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ICS 13.220.40; 59.080.30

English version

**Textiles and textile products - Burning behaviour of industrial and technical textiles - Procedure to determine the flame spread of vertically oriented specimens**

Textiles et produits textiles - Comportement au feu des textiles industriels et techniques - Méthode de détermination de la propagation de la flamme des éprouvettes orientées verticalement

Textilien und textile Erzeugnisse - Brennverhalten industrieller und technischer Textilien - Verfahren zur Bestimmung der Flammenausbreitung vertikal angeordneter Meßproben

This European Standard was approved by CEN on 16 January 1998.

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.

This European Standard exists 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.

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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 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 February 2000, and conflicting national standards shall be withdrawn at the latest by February 2000.

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

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REPUBLIC OF SERBIA  
MINISTRY OF EDUCATION AND SCIENCE  
INSTITUT ZA VEŠTAČENJE I PROJEKTOVANJE  
IZ OBLASTI GRAĐEVINARSTVA I  
POSREDOVANJE U PROMETU NEKRETNIM  
POTRAGI ZA NEKRETNIM  
POSREDOVANJE U PROMETU NEKRETNIM

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BEOGRAD, 15. 01. 2000.

## 1 Scope

This European Standard specifies a procedure to determine the flame spread of vertically oriented specimens of industrial and technical textiles, when tested according to EN ISO 6941.

## 2 Normative references

This European Standard incorporates, by dated or undated references, provisions from other publications. These normative references are cited at the appropriate places in the text and the publications are listed hereafter. For dated references, subsequent amendments or revisions of any of these publications apply to this European Standard only when incorporated in it by amendment or revision. For undated references the latest edition of the publications referred to applies.

EN ISO 6941: 1995 Textile fabrics - Burning behaviour - Measurement of flame spread properties of vertically oriented specimens (ISO 6941:1984, including Amendment :1992)

## 3 Definitions

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For the purposes of this European Standard the following definitions apply.

**3.1 flaming debris:** debris is considered to be flaming if, when separated from the specimen during the test procedure, it is able to ignite the filter paper.

**3.2 industrial and technical textiles:** any textile which can be used for industrial or technical purposes.

NOTE: The definition does not include textiles for general purposes such as curtains, drapes, protective clothing, upholstery or bedding.

## 4 Pretreatment

Cleansing may influence the burning behaviour of some industrial and technical textiles by removing non durable finishes or by changing the structure of the material. For the relevant pretreatment procedure, reference should be made to:

- a) the product performance standard;
  - b) the manufacturer's recommended procedure;
- or
- c) a procedure agreed between the involved parties.

## 5 Test specimens

Test specimens shall be taken so as to be representative of the submitted material; the number and size of the test specimens required shall be in accordance with EN ISO 6941.

Unless otherwise specified, the test specimen shall not contain any features of construction such as seams, pleats etc.

## 6 Conditioning

Condition the test specimen and the filter paper for at least 24 h in the standard atmosphere of  $(20 \pm 2)^\circ\text{C}$  and  $(65 \pm 5)\%$  r.h.

## 7 Procedure

**7.1** Flame spread shall be tested according to EN ISO 6941 using commercial grade propane gas.

**7.2** For evaluation of flaming debris, position horizontally, below the test specimen, at a distance of  $(50 \pm 10)$  mm from the lower edge of the specimen, a piece of at least 150 mm x 100 mm of a filter paper with the following characteristics :

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- Area specific mass  $(80 \pm 20)$  g/m<sup>2</sup>, thickness  $(0,20 \pm 0,05)$  mm, content of alpha cellulose > 95 %.

If the burner could touch the filter paper, a suitable slot shall be cut in each piece of filter paper used.

## 8 Test report

The test report shall include the following information :

- a) reference to this detailed procedure, i.e. EN 1624 :1999 ;
- b) identification of the textile;
- c) the cleansing procedure if used or a statement that the material is not intended to be cleansed;
- d) date of test;
- e) techniques used to attach textiles which cannot be supported on the pins;

- f) orientation of the burner for igniting the test specimen (face or bottom edge);
- g) the following times in seconds, for the length and width directions and for each face tested;
  - 1) the flame spread times measured according to 8.9a) and c) of EN ISO 6941:1995;
  - 2) if six specimens are tested, the mean from the results for all specimens that burn to the respective marker thread and the number of values averaged. Do not report a mean of less than three values;
- h) the number of specimens that fail to ignite;
- i) the number of specimens which ignite but fail to burn to the first marker thread;
- j) the result of the evaluation of flaming debris.

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