
Tekstilije - Gorljivost - Oblačilne tekstilije - Podroben opis postopka za ugotavljanje gorljivosti oblačilnih tekstilij

Textiles - Burning behaviour - Fabrics for apparel - Detailed procedure to determine the burning behaviour of fabrics for apparel

Textilien - Brennverhalten - Bekleidungstextilien - Detailliertes Verfahren zur Bestimmung des Brennverhaltens von Bekleidungstextilien

Textiles - Comportement au feu - Etoffes pour vêtements - Procédure détaillée pour déterminer le comportement au feu des étoffes pour vêtements

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Ta slovenski standard je istoveten z: EN 1103:1995

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61.020	Oblačila	Clothes

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EUROPEAN STANDARD

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English version

**Textiles - Burning behaviour - Fabrics for apparel -
Detailed procedure to determine the burning
behaviour of fabrics for apparel**

Textiles - Comportement au feu - Etoffes pour vêtements - Procédure détaillée pour déterminer le comportement au feu des étoffes pour vêtements
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CEN

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Foreword

This European Standard has been prepared by the Technical Committee CEN/TC 248 "Textiles and textile products", of which the secretariat 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of an identical text or by endorsement, at the latest by May 1996, and conflicting national standards shall be withdrawn at the latest by May 1996.

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 and the United Kingdom.

The ignitability is determined using a modified EN ISO 6941. These modifications are listed in this document.

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1 Scope

This European Standard specifies a procedure to determine the burning behaviour of textiles for apparel when tested using the surface ignition test in EN ISO 6941.

2 Normative references

This European Standard incorporates by dated or undated reference, 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 to 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 publication referred to applies.

EN 26330 Textiles - Domestic washing and drying procedures for textile testing (ISO 6330 :1984)

EN ISO 6941 : 1995 Textiles - Burning behaviour - Measurement of flame spread properties of vertically oriented specimens (ISO 6941 : 1984)

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3 Definitions

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For the purpose of this standard, the definitions given in EN ISO 6941 apply in addition to the following:

3.1 surface flash : Rapid spread of flame over the surface of a material, without ignition of its basic structure at that time.

3.2 flaming debris : Material separating from the specimen during the test procedure, falling below the initial edge of the specimen and igniting a filter paper.

4 Cleansing

Fabrics shall be submitted to the cleansing procedure in accordance with the information given on the care label. If no cleansing procedure is prescribed the material shall be submitted to one wash cycle in accordance with method 6A of EN 26330 and dried in accordance with method C of EN 26330.

NOTE : This cleansing is not intended as a durability test for flame retardant treatments but only to obtain fabric surface and structure characteristics which are representative of those typically obtained in fabrics during actual use.

5 Test specimens

5.1 General

Only the outer surface of the fabric shall be tested. If the outer surface cannot be identified only the surface which is shown by pre-testing to spread flame at a higher rate shall be tested.

Test specimens for clothing may consist of one or more layers of materials according to the construction of the clothing. In this case the combination of materials as worn shall be tested.

5.2 Number of specimens

Cut six specimens each 560 mm long and 170 mm wide; three with the longer dimensions in the length direction and three with the longer dimension in the width direction.

6 Conditioning

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Condition the test specimens and the filter paper for at least 24 h in the standard atmosphere of (20 ± 2) °C and (65 ± 5) % relative humidity,3:1999

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7 Test procedure

7.1 Carry out the test in accordance with the procedure prescribed in 8.1 to 8.6.1 of EN ISO 6941 with the following modifications and/or limitations:

- surface ignition;
- flame application time 10 s;
- commercial gas : propane;
- the first and the third marker thread shall be used.

7.2 Position horizontally, below the test specimens, at a distance of 50 mm from the lower edge of the specimen, on a flat surface, a piece of filter paper of at least 150 mm x 100 mm, with the following characteristics:

- area specific mass (68 ± 6) g/m², thickness 0,15 mm to 0,16 mm, content of alpha cellulose ≥ 95 %.

Note if the filter paper ignites or not.

7.3 Any surface flash occurring shall be noted.

7.4 Measure the following times in seconds for each specimen:

- from the start of the application of the igniting flame to the severance of the first marker thread;
- from the start of the application of the igniting flame to the severance of the third marker thread.

7.5 If the third marker thread is not severed, the afterflame and afterglow time in seconds shall be noted for each specimen.

8 Test report

The test report shall include the following information:

- a) reference to this European Standard;
- b) identification of the fabric tested;
- c) cleansing procedure used;
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- d) date of test;
- e) occurrence of surface flash;
- f) occurrence of flaming debris;
- g) which surface was tested;
- h) flame spread times in seconds measured according to 7.4 for each specimen;
- i) if all the specimens burn: mean flame spread time in seconds from the first marker thread to the third marker thread for each direction;
- j) if the third marker thread is not severed the afterflame and afterglow time in seconds for each specimen;