

**Textiles - Burning behaviour of bedding items - Part 1: General test methods for the ignitability by a smouldering cigarette**

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## EESTI STANDARDI EESSÕNA

## NATIONAL FOREWORD

<p>Käesolev Eesti standard EVS-EN ISO 12952-1:2001 sisaldab Euroopa standardi EN ISO 12952-1:1998 ingliskeelset teksti.</p> <p>Käesolev dokument on jõustatud 18.06.2001 ja selle kohta on avaldatud teade Eesti standardiorganisatsiooni ametlikus väljaandes.</p> <p>Standard on kättesaadav Eesti standardiorganisatsioonist.</p>	<p>This Estonian standard EVS-EN ISO 12952-1:2001 consists of the English text of the European standard EN ISO 12952-1:1998.</p> <p>This document is endorsed on 18.06.2001 with the notification being published in the official publication of the Estonian national standardisation organisation.</p> <p>The standard is available from Estonian standardisation organisation.</p>
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<p><b>Käsitlusala:</b></p> <p>This standard specifies the general part of a test method common to all bedding items. EN ISO 12952-2 describes the specific parts of the test methods for bedding items, which can normally be placed on a mattress. A test specimen placed on a testing substrate is subjected to a smouldering cigarette placed on top of and/or below the test specimen. Any progressive smouldering and/or flaming is noted. Where the actual mattress is known, it can replace the testing substrate.</p>	<p><b>Scope:</b></p> <p>This standard specifies the general part of a test method common to all bedding items. EN ISO 12952-2 describes the specific parts of the test methods for bedding items, which can normally be placed on a mattress. A test specimen placed on a testing substrate is subjected to a smouldering cigarette placed on top of and/or below the test specimen. Any progressive smouldering and/or flaming is noted. Where the actual mattress is known, it can replace the testing substrate.</p>
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**ICS** 13.220.40, 97.160

**Võtmesõnad:** bedding, cigarettes, fire tests, general, roasting tests, textile products, textiles

ICS 13.220.40; 97.160

Descriptors: Textiles, burning behaviour, bedding items, ignitability, cigarettes, testing.

**English version**

Textiles

**Burning behaviour of bedding items**

Part 1: General test methods for the ignitability by a  
smouldering cigarette  
(ISO 12952-1 : 1998)

Textiles – Comportement au feu des  
articles de literie – Partie 1: Méthodes  
d'essai générales pour l'allumabilité  
par une cigarette en combustion  
(ISO 12952-1 : 1998)

Textilien – Brennverhalten von Bett-  
zeug – Teil 1: Allgemeines Prüfver-  
fahren für die Entzündbarkeit durch  
eine glimmende Zigarette  
(ISO 12952-1 : 1998)

This European Standard was approved by CEN on 1998-10-24.

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, the Czech Republic, Denmark, Finland, France, Germany, Greece, Iceland, Ireland, Italy, Luxembourg, the Netherlands, Norway, Portugal, Spain, Sweden, Switzerland, and the United Kingdom.

**CEN**

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

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## Foreword

International Standard

ISO 12952-1 Textiles – Burning behaviour of bedding items – Part 1: General test methods for the ignitability by a smouldering cigarette.

which was prepared by ISO/TC 38 'Textiles' of the International Organization for Standardization, has been adopted by Technical Committee CEN/TC 248 'Textiles and textile products', the Secretariat of which is held by BSI, as a European Standard.

This European Standard shall be given the status of a national standard, either by publication of an identical text or by endorsement, and conflicting national standards withdrawn, by June 1999 at the latest.

In accordance with the CEN/CENELEC Internal Regulations, the national standards organization of the following countries are bound to implement this European Standard:

Austria, Belgium, the Czech Republic, Denmark, Finland, France, Germany, Greece, Iceland, Ireland, Italy, Luxembourg, the Netherlands, Norway, Portugal, Spain, Sweden, Switzerland and the United Kingdom.

## Endorsement notice

The text of the International Standard ISO 12952-1 : 1998 was approved by CEN as a European Standard without any modification.

## Introduction

Fires are sometimes caused by the ignition of bedding items by smokers' materials; the ignitability of bedding items by a smouldering cigarette or a small open flame is therefore an important feature in the assessment of the risk of fire.

It cannot be assumed that protection against a smouldering ignition source will automatically give protection against flaming ignition. Users of this standard should, thus, consider the need to submit test specimens to both cigarette and flaming ignition tests.

EN ISO 12952-1 and EN ISO 12952-2 describe a test method with the smouldering cigarette as ignition source. Testing against the ignition source of a small open flame forms the contents of EN ISO 12952-3 and EN ISO 12952-4.

This European Standard can be used for the assessment of ignitability of individual items of bedding and of composite arrangements.

EN ISO 12952-1 and EN ISO 12952-3 describe general test methods procedure and aspects of testing common to all bedding items; EN ISO 12952-2 and EN ISO 12952-4 contain all details necessary for the testing of the specific bedding items.

**WARNING:** This test relates only to the ignitability of materials under the particular conditions of test. It is not intended as a means of assessing the full potential fire hazard of the bedding item in use.

Particular attention is drawn to the possibility of ignition of lower parts of a bedding assembly when using bedding items which are not themselves ignited.

## 1 Scope

This European Standard specifies a general test method common to all bedding items, for assessment of their ignitability when subjected to a smouldering cigarette.

EN ISO 12952-2 describes a specific test method for bedding items, which can normally be placed on a mattress, for example:

- mattress covers;
- underlays;
- incontinence sheets and -pads;
- sheets;
- blankets;
- electric blankets;
- quilts (duvets) and covers;
- pillows (whatever the filling) and bolsters;
- pillowcases.

This standard does not apply to mattresses, bed-bases and mattress pads.

## 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 draft European Standard only when incorporated in it by amendment or revision. For undated references the latest edition of the publication referred to applies.

EN ISO 12952-2	Textiles - Burning behaviour of bedding items - Part 2: Specific test methods for the ignitability by a smouldering cigarette (ISO 12952-2:1999)
EN ISO 3175	Textiles - Evaluation of stability to machine dry-cleaning (ISO 3175:1995)
EN 26330	Textiles - Domestic washing and drying procedures for textile testing (ISO 6330:1984)
ISO/IEC GUIDE 52	Glossary of fire terms and definitions

## 3 Definitions

For the purposes of this European Standard, the definitions given in ISO/IEC Guide 52 and the following definitions apply:

- 3.1 bed: Mattress placed on top of a bed base with no other bedding items present.
- 3.2 bed assembly: Stack of successive layers of mattress and various bedding items, with or without pillow and pillowcase, representing a section through the centre of a made-up bed.
- 3.3 bed base: Structure that supports the mattress.
- 3.4 bedding: General term for all items placed on the mattress or the bed by a user to provide comfort and warmth and for decorative purposes. This term includes sheets, blankets, bed spreads, valances, quilts, duvets, quilt covers and mattress covers.