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**BS EN 1021-1:2014**



**BSI Standards Publication**

# **Furniture — Assessment of the ignitability of upholstered furniture**

Part 1: Ignition source smouldering cigarette

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This British Standard is the UK implementation of EN 1021-1:2014. It supersedes BS EN 1021-1:2006 which is withdrawn.

The UK participation in its preparation was entrusted to Technical Committee FW/6, Flammability performance and fire tests for furniture.

A list of organizations represented on this committee can be obtained on request to its secretary.

This publication does not purport to include all the necessary provisions of a contract. Users are responsible for its correct application.

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**Compliance with a British Standard cannot confer immunity from legal obligations.**

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## Furniture - Assessment of the ignitability of upholstered furniture - Part 1: Ignition source smouldering cigarette

Ameublement - Évaluation de l'allumabilité des meubles  
rembourrés - Partie 1 : Source d'allumage : cigarette en  
combustion

Möbel - Bewertung der Entzündbarkeit von Polstermöbeln -  
Teil 1: Glimmende Zigarette als Zündquelle

This European Standard was approved by CEN on 28 June 2014.

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 CEN-CENELEC Management Centre 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 CEN-CENELEC Management Centre has the same status as the official versions.

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EUROPEAN COMMITTEE FOR STANDARDIZATION  
COMITÉ EUROPÉEN DE NORMALISATION  
EUROPÄISCHES KOMITEE FÜR NORMUNG

**CEN-CENELEC Management Centre: Avenue Marnix 17, B-1000 Brussels**

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## Foreword

This document (EN 1021-1:2014) has been prepared by Technical Committee CEN/TC 207 "Furniture", the secretariat of which is held by UNI.

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 2015 and conflicting national standards shall be withdrawn at the latest by February 2015.

Attention is drawn to the possibility that some of the elements of this document may be the subject of patent rights. CEN [and/or CENELEC] shall not be held responsible for identifying any or all such patent rights.

This document supersedes EN 1021-1:2006.

The main changes in relation to the 2006 edition of EN 1021-1 are:

- Modification to the specification of the weight of the ignition source;
- Modification to the test procedure to allow for a third ignition source to be placed on the test sample if either of the two initial ignition sources self extinguish prior to the completion of the test.

According to the CEN-CENELEC Internal Regulations, the national standards organizations of the following countries are bound to implement this European Standard: Austria, Belgium, Bulgaria, Croatia, Cyprus, Czech Republic, Denmark, Estonia, Finland, Former Yugoslav Republic of Macedonia, France, Germany, Greece, Hungary, Iceland, Ireland, Italy, Latvia, Lithuania, Luxembourg, Malta, Netherlands, Norway, Poland, Portugal, Romania, Slovakia, Slovenia, Spain, Sweden, Switzerland, Turkey and the United Kingdom.

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## **Introduction**

This European Standard is one of a series of standards concerned with the ignitability of upholstered furniture using different ignition sources. The ignition source used in this European Standard is a smouldering cigarette.

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## 1 Scope

This European Standard specifies a test method to assess the ignitability of material combinations, such as covers and fillings used in upholstered seating, when subjected to a smouldering cigarette as an ignition source.

The test measures only the ignitability of a combination of materials used in upholstered seating and not the ignitability of a particular finished item of furniture incorporating these materials.

## 2 Terms and definitions

For the purposes of this document, the following terms and definitions apply.

### 2.1

#### **progressive smouldering**

exothermic oxidation, not accompanied by flaming, that is self-propagating, i.e. independent of the ignition source. It may or may not be accompanied by incandescence

### 2.2

#### **flaming**

undergoing combustion in the gaseous phase with the emission of light

### 2.3

#### **flammability**

ability of a material or product to burn with a flame under specified test conditions

### 2.4

#### **ignitability**

measure of the ease with which a material, product or component can be ignited so as to flame or progressively smoulder

### 2.5

#### **ignition source**

source of energy used to ignite combustible materials or products

### 2.6

#### **outer cover**

outer layer of the upholstery

### 2.7

#### **inner cover**

layer of material used between the outer cover and the upholstery filling whose nominal thickness is less than or equal to 2 mm

Note 1 to entry: Any inner cover nominally greater than 2 mm thick is considered an upholstery filling.

### 2.8

#### **filling**

main upholstery material contained by the outer cover and (if used) the inner cover which may consist of several different materials, including any inner cover nominally greater than 2 mm thick

## 3 Criteria of ignition

### 3.1 Progressive smouldering ignition

For the purposes of this European Standard, all the following types of behaviour are considered to be progressive smouldering ignitions: