

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

EESTI STANDARDI EESSÕNA

NATIONAL FOREWORD

See Eesti standard EVS-EN 1021-1:2014 sisaldab Euroopa standardi EN 1021-1:2014 inglisekeelset teksti.	This Estonian standard EVS-EN 1021-1:2014 consists of the English text of the European standard EN 1021-1:2014.
Standard on jõustunud sellekohase teate avaldamisega EVS Teatajas.	This standard has been endorsed with a notification published in the official bulletin of the Estonian Centre for Standardisation.
Euroopa standardimisorganisatsioonid on teinud Euroopa standardi rahvuslikele liikmetele kättesaadavaks 13.08.2014.	Date of Availability of the European standard is 13.08.2014.
Standard on kättesaadav Eesti Standardikeskusest.	The standard is available from the Estonian Centre for Standardisation.

Tagasisidet standardi sisu kohta on võimalik edastada, kasutades EVS-i veebilehel asuvat tagasiside vormi või saates e-kirja meiliaadressile standardiosakond@evs.ee.

ICS 13.220.40, 97.140

Standardite reprodutseerimise ja levitamise õigus kuulub Eesti Standardikeskusele

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

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

The right to reproduce and distribute standards 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 a written permission from the Estonian Centre for Standardisation.

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

English Version

**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.

CEN members are the national standards bodies of 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 United Kingdom.



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

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

Contents

Page

Foreword.....	3
Introduction	4
1 Scope	5
2 Terms and definitions	5
3 Criteria of ignition	5
3.1 Progressive smouldering ignition.....	5
3.2 Flaming ignition	6
4 Principle.....	6
5 Health and safety of operators	6
5.1 General.....	6
5.2 Enclosure.....	6
5.3 Extinguishers	6
6 Apparatus	7
6.1 Test rig	7
6.2 Test enclosure.....	9
6.3 Clock	10
6.4 Ignition source smouldering cigarette	10
7 Preparation and conditioning.....	10
7.1 Preparation	10
7.2 Conditioning.....	10
7.3 Atmosphere for testing	11
8 Test assembly	11
8.1 General.....	11
8.2 Cover materials	11
8.3 Upholstery filling.....	11
9 Test procedure	12
9.1 Preparation	12
9.1.1 General.....	12
9.2 Ignition source application	14
9.3 Final examination.....	14
10 Test report	14
Annex A (informative) Guidance notes for designers and specifiers	16
Annex B (informative) Model test report form	18
Annex C (informative) Cleaning of a rig	19
Annex D (normative) Water soaking procedure	20
D.1 Reagents	20
D.2 Apparatus	20
D.3 Specimens	20
D.4 Procedure	21

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.

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.

This document is a preview generated by EVS

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: