

Furniture - Assessment of the ignitability of mattresses and upholstered bed base - Part 2: Ignition source: match flame equivalent

EESTI STANDARDI EESSÕNA

NATIONAL FOREWORD

See Eesti standard EVS-EN 597-2:2015 sisaldab Euroopa standardi EN 597-2:2015 ingliskeelset teksti.	This Estonian standard EVS-EN 597-2:2015 consists of the English text of the European standard EN 597-2:2015.
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English Version

**Furniture - Assessment of the ignitability of mattresses
and upholstered bed bases - Part 2: Ignition source: match
flame equivalent**

Ameublement - Évaluation de l'allumabilité des
matelas et des sommiers rembourrés - Partie 2: Source
d'allumage : flamme équivalente à celle d'une allumette

Möbel - Bewertung der Entzündbarkeit von Matratzen
und gepolsterten Bettböden - Teil 2: Zündquelle: eine
einem brennenden Streichholz vergleichbare
Gasflamme

This European Standard was approved by CEN on 7 November 2015.

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COMITÉ EUROPÉEN DE NORMALISATION
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European foreword

This document (EN 597-2:2015) 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of an identical text or by endorsement, at the latest by June 2016 and conflicting national standards shall be withdrawn at the latest by June 2016.

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 597-2:1994.

The test is based on EN 1021-2, *Furniture – Assessment of the ignitability of upholstered furniture – Part 2: Ignition source: match flame equivalent*.

The main changes in relation to EN 597-2:1994 are:

- the standard has been aligned with EN 597-1;
- a tolerance has been added to the temperature of the gas flame;
- clarification of the gas supply required to produce ignition source 1.

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 various ignition sources. The ignition source used in this European Standard is a gas flame equivalent to a match flame.

When mattresses or bed bases are used or stored on their own, it is desirable to know their ignitability in their own right.

It cannot be assumed that protection against flaming sources will automatically give protection against smouldering ignition. Users of the standard should therefore recognize the need to submit test specimens to both a gas flame equivalent to a match flame and cigarette ignition tests.

WARNING — Attention is drawn to the fact that the tests given in the test report (see Clause 10) are not intended to reproduce the full fire hazards that may be encountered.

1 Scope

This European Standard specifies a test method to assess the ignitability of mattresses, upholstered bed bases, when subjected to a gas flame as an ignition source.

Air mattresses and water beds are excluded from this standard.

The standard contains one annex:

Annex A (informative) Model test report form.

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, which 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 the 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

mattress pad

upholstered product that is used in conjunction with, and to complement, a mattress or upholstered bed base

2.7

mattress

upholstered product intended for sleeping upon

2.8

bed base

structure of a bed that supports a mattress or the surface(s) of a mattress that support(s) a user

2.9

upper surface

surface of a bed base that supports a mattress or the surface(s) of a mattress that support(s) a user