

<b>STN</b>	<b>Nábytok. Hodnotenie zápalnosti matracov a čalúnených lôžkových podstavcov. Časť 1: Zdroj zapálenia: tlejúca cigareta.</b>	<b>STN EN 597-1</b>  91 0236
------------	--	--

Furniture - Assessment of the ignitability of mattresses and upholstered bed bases - Part 1: Ignition source smouldering cigarette

Táto norma obsahuje anglickú verziu európskej normy.  
This standard includes the English version of the European Standard.

Táto norma bola oznámená vo Vestníku ÚNMS SR č. 06/16

Obsahuje: EN 597-1:2015

Oznámením tejto normy sa ruší  
STN EN 597-1 (91 0236) z augusta 1999

**123041**

---

Úrad pre normalizáciu, metrológiu a skúšobníctvo SR, 2016  
Podľa zákona č. 264/1999 Z. z. v znení neskorších predpisov sa môžu slovenské technické normy  
rozmnožovať a rozširovať iba so súhlasom Úradu pre normalizáciu, metrológiu a skúšobníctvo SR.

EUROPEAN STANDARD

**EN 597-1**

NORME EUROPÉENNE

EUROPÄISCHE NORM

December 2015

ICS 13.220.40; 97.140

Supersedes EN 597-1:1994

English Version

## Furniture - Assessment of the ignitability of mattresses and upholstered bed bases - Part 1: Ignition source smouldering cigarette

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

Möbel - Bewertung der Entzündbarkeit von Matratzen  
und gepolsterten Bettböden - Teil 1: Zündquelle:  
glimmende Zigarette

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

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**

<b>Contents</b>		Page
<b>European foreword</b> .....		3
<b>Introduction</b> .....		4
<b>1</b>	<b>Scope</b> .....	5
<b>2</b>	<b>Terms and definitions</b> .....	5
<b>3</b>	<b>Criteria of ignition</b> .....	6
<b>3.1</b>	<b>Progressive smouldering ignition</b> .....	6
<b>3.2</b>	<b>Flaming ignition</b> .....	6
<b>4</b>	<b>Principle</b> .....	6
<b>5</b>	<b>Health and safety of operators</b> .....	6
<b>5.1</b>	<b>General</b> .....	6
<b>5.2</b>	<b>Enclosure</b> .....	6
<b>5.3</b>	<b>Extinguishers</b> .....	6
<b>6</b>	<b>Apparatus</b> .....	7
<b>6.1</b>	<b>Test rig</b> .....	7
<b>6.2</b>	<b>Test enclosure</b> .....	8
<b>6.3</b>	<b>Clock</b> .....	8
<b>6.4</b>	<b>Ignition source smouldering cigarette</b> .....	8
<b>7</b>	<b>Atmospheres for conditioning and testing</b> .....	8
<b>7.1</b>	<b>Conditioning</b> .....	8
<b>7.2</b>	<b>Atmosphere for testing</b> .....	8
<b>8</b>	<b>Test specimen</b> .....	8
<b>8.1</b>	<b>General</b> .....	8
<b>8.2</b>	<b>Small scale</b> .....	9
<b>8.3</b>	<b>Full size</b> .....	9
<b>9</b>	<b>Test procedure</b> .....	9
<b>9.1</b>	<b>Preparation</b> .....	9
<b>9.2</b>	<b>Ignition source application</b> .....	9
<b>9.3</b>	<b>Final examination</b> .....	10
<b>10</b>	<b>Test report</b> .....	10
<b>Annex A (informative) Model test report form</b> .....		11

## European foreword

This document (EN 597-1:2015) 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 597-1:1994.

The test is based on EN 1021-1, *Furniture – Assessment of the ignitability of upholstered furniture – Part 1: Ignition source: smouldering cigarette*.

The main changes in relation to EN 597-1:1994 are:

- modification to the specification of the weight of the ignition source;
- modification to the test procedure to allow 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 mattresses and upholstered bed bases using different ignition sources. The ignition source used in this European Standard is a smouldering cigarette.

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 cigarette and flaming 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 or mattress pads when subjected to a smouldering cigarette 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.

**koniec náhľadu – text ďalej pokračuje v platenej verzii STN**