

## TEST REPORT

Nº **2017AU1220**

DATE OF RECEPTION **04/12/2017**

DATE TEST  
Inicio / Starting: 04/09/2017  
Finalización / Ending: 08/09/2017

APPLICANT  
KOBEFAB INTERNATIONAL B.V.  
DE VEST, 62  
NL-555 XP VALKENSWAARD

Att. Jacky Duburg

DESCRIPTION AND  
IDENTIFICATION OF  
SAMPLES

SAMPLES REFERENCED:

- "SPRING".

TESTS CARRIED  
OUT

- EVALUATION OF THE IGNITABILITY OF UPHOLSTERED FURNITURE

Rev. 1.

Esta revisión anula y  
sustituye a la anterior /  
*This revision cancels and  
replaces the previous*

ATTACHED

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SAMPLE(S)

SEALED

PAGE

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OF

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## RESULTS

### EVALUATION OF THE IGNITABILITY OF UPHOLSTERED FURNITURE

#### DESCRIPTION OF SAMPLE

##### Sample description and end use application

<b>Sponsor, address</b>	KOBEFAB INTERNATIONAL B.V
<b>Prepared by</b>	Asociación de Investigación de la Industria Textil – AITEX Plaza Emilio Sala, 1 - E03801 – Alcoy (Alicante) - España
<b>Furnished type</b>	Upholstery

##### General Description; Cloth

<b>Material</b>	Brown flexible sheet adhered to a grey fabric.
<b>Composition</b>	Surface: 100% poliurethane, support: 100% polyester
<b>Density (inch number)</b>	Not provided by client.
<b>Thread number</b>	Not provided by client.
<b>Thickness</b>	1.4 mm
<b>Weight</b>	480 g/m <sup>2</sup>
<b>Color and tone (if it includes motif, state the most representative)</b>	Brown
<b>Flame retardant treatment</b>	Yes, according to client.

##### General description; Infill

<b>Material</b>	Polyurethane
<b>Density</b>	33 – 37 kg/m <sup>3</sup>
<b>Flame retardant treatment</b>	Yes
<b>Sample description</b>	Provided by laboratory

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## RESULTS

### Object and scope

This test procedure establishes flammability evaluation methods for material combinations, as the used for cover and fill upholstered furniture, when accidentally contact cigarettes or open flames like matches, as it could happens when using upholstered seat furnitures. This method do not include the ignition incited by deliberated vandalism actions.

### IMO RESOLUTION MSC.307 (88) ANNEX 1 PART 8 – TEST OF UPHOLSTERED FURNITURE

#### Sample uncertainty

$\pm 0,554$  s;  $\pm 2,393$  mm (Cigarette)

#### Standard deviations

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#### Conditioning

72 h in indoor ambiantal conditions and 16h (for at least) at  $23 \pm 2^{\circ}\text{C}$  and  $50 \pm 5\%\text{HR}$

#### Pretreatment

Without pretreatment.

#### Ambiental condition test

$23.3^{\circ}\text{C}$  and  $51.5\%\text{HR}$

#### Speed air

$0,07$  m/s

#### Test date

08/09/2017

#### Observations

The test results relate to the behavior of the test specimens of a product under the particular conditions of the test; they are not intended to be the sole criterion for assessing the potential fire hazard of the product in use.

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## RESULTS

### Ignition source

#### Smouldering cigarette

- a) Dimensions cigarette (mm)
- b) Mass cigarette (g)
- c) Slow combustion rate (min/50mm)
- d) Charred area (measured from ignition source) (mm)
- e) Material charring
- f) Material melting
- g) Smoldering combustion evidence
- h) Smoulders for more than one hour
- i) Result: P = Pass | F = Fail.

### Trade name

SPRING

Specimen	a	b	c	d	e	f	g	h	i
Specimen 1	68	0.94	--'---	2	si	no	no	no	P
Specimen 2	68	0.96	--'---	2	si	no	no	no	P

### Notes

A moderate emission of white smoke was observed during the test. The cigarettes have been extinguished at 169 seconds, 175, respectively.

**MATERIAL PASS THE REQUIREMENTS OF THE TEST**

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## RESULTS

### Ignition source

#### Propane flame

- a) Smoldering.
- b) Flaming.
- c) Unsafe escalating combustion.
- d) Test assembly consumed.
- e) Smoulders or flaming through thickness.
- f) Flaming which continues for more than 120 s.
- h) Result: P = Pass | F = Fail.

### Reference

#### SPRING

Specimen	a	b	c	d	f	g	h
Specimen 1	no	no	no	no	no	no	P
Specimen 2	no	no	no	no	no	no	P

### Notes

A moderate emission of white smoke was observed during the test.

**MATERIAL PASS THE REQUIREMENTS OF THE TEST**

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## RESULTS

CIGARETTE TEST CRITERIA
a) Any test assembly that shows evidence of combustion for more than one hour.
b) Any test assembly that, on final examination, shows evidence of active smoldering.

FLAME TEST CRITERIA
a) Any test assembly which flaming continues for more than 120 s after removal of the burner tube.
b) Any test assembly that, on final examination, shows evidence of active smoldering.

**Remark**

A flaming ignition is considered to be the occurrence of any flames initiated by a smoldering source.

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Celia Dolça  
Head of Fire Behaviour lab.



Digitally signed by CELIA DOLÇA  
CAMANEZ - NIF:216961225  
Date: 2017.12.18 13:40:05 +01:00  
Reason: Autorizado  
Location: Alcoy

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