

Furntech TEST REPORT No. 3725/1

Tested in accordance with the requirements of:

International Maritime Organisation

Resolution A.652(16)

**Recommendation on fire test procedures
for upholstered furniture**

**(Methods of test for the ignitability by smokers'
materials of upholstered composites for seating)**

Furntech No:	3725/1
Supplier:	Leather Italia Pty Ltd
Description of cover:	Puccini Upholstery Leather
Description of filling:	AA 23-130
Date of test:	8 October 2001

Purpose of Test

To determine the ignitability of an upholstered composite when it is tested in accordance with the principles of IMO Resolution A.652(16), *Recommendation on fire test procedures for upholstery furniture, Methods of test for ignitability by smokers' materials of upholstered composites for seating.*

Scope of Test

IMO Resolution A.652(16) describes methods of test for assessing ignitability of upholstered composites for seating, eg covers and filling, when they are subjected to either a smouldering cigarette or a butane flame ignition source.

Principle

The principle is to subject an assembly of upholstered composite, arranged to represent, in stylised form, a junction between seat and back (or seat and arm) surface of a chair to two sources of ignition: one being a smouldering cigarette and the other a flaming source approximating to the calorific output of a burning match.

Description of Test Specimen

The product was described as an Upholstery Leather fabric referenced "Puccini" of unspecified weight.

The specimen was supplied by the sponsor of the test. Furntech was not involved in any selection or sampling procedure.

The sample was tested over a non flame retarded flexible foam having a density of 23 kg/m³.

This Test Report refers to testing on one sample.
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Conditioning of Specimen

The specimen was received on 01 October 2001.

The specimen was conditioned for at least 72 hours in indoor ambient conditions and then immediately before the test for at least 16 hours in an atmosphere having a temperature of $20 \pm 5^\circ\text{C}$ and a relative humidity of $50 \pm 20\%$.

Date of Test

The test was performed on 08 October 2001.

Test Procedure

The test was carried out in accordance with the procedure specified in IMO Resolution A.652(16) and this report should be read in conjunction with this standard.

Note: The cigarettes used had average burn rates of 9 minutes 27 seconds for 50 mm. This would make the cigarette test more severe and pass level performance was still observed.

Observations

			Smouldering Cigarette Test 1	Smouldering Cigarette Test 2
Times (min)		for cigarette smoulder	2	20
		for smouldering to stop	2	22
		to reach extremities	Not applicable	Not applicable
		for cover splitting	Not applicable	Not applicable
		for extinguishing	Not applicable	Not applicable
Special features		melting	Not applicable	Not applicable
		dripping	Not applicable	Not applicable
		charring	Not applicable	Not applicable
		development of flames	Not applicable	Not applicable
Extent of damage				
Fabric	Horizontal surface	length	8	60
		width	6	7
	Vertical surface	length	8	60
		width	8	7
Filling	Horizontal surface	length	0	35
		width	0	8
		depth	0	2
	Vertical surface	length	0	38
		width	0	3
		depth	0	1
Overall result			Pass	

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			Butane Flame Test 1	Butane Flame Test 2
Times (sec)	for source		20	20
	flames (after removal of source)		0	0
	smoke (after removal of source)		2	2
	to reach extremities		Not applicable	Not applicable
	for cover splitting		Not applicable	Not applicable
	for extinguishing		Not applicable	Not applicable
Special features	melting		Not applicable	Not applicable
	dripping		Not applicable	Not applicable
	charring		Not applicable	Not applicable
	development of flames		Not applicable	Not applicable
Extent of damage				
Fabric	Horizontal surface	along	8	8
		outwards	10	4
	Vertical surface	upwards	62	60
		across	14	14
Filling	Horizontal surface	along	0	0
		outwards	0	0
		depth	0	0
	Vertical surface	upwards	0	0
		across	0	0
		depth	0	0
Overall result for butane flame test (Pass or fail)			Pass	

Test Results

The following test results relate only to the ignitability of the combination of upholstery composites under the particular conditions of test; they are not intended as a means of assessing the full potential fire hazard of the materials in use.

- Cigarette Test No. 1: No flaming and no progressive smouldering was observed.
- Cigarette Test No. 2: No flaming and no progressive smouldering was observed.
- Butane Flame Test No. 1: No flaming was observed after the burner was withdrawn.
- Butane Flame Test No. 2: No flaming was observed after the burner was withdrawn.

Conclusion

The specimen passed the cigarette test and passed the butane flame test.

Note: Re-issued due to change of supplier name.

Signed:

Date:

Checked by:

Carol Willson
 Carol Willson
 Testing Officer

8 October 2001

Ralph

NATA Accredited Laboratory

Number: 3082

