



Confidential Report

Our Ref: 23/58877C/08/21





Wira House, West Park Ring Road, Leeds, LS16 6QL, UK.
Telephone: +44 (0) 113 259 1999
Email: info@bttg.co.uk
: www.bttg.co.uk

Date: 07 September 2021

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Your Ref: ---

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Client: **SVENSSON**

AB Ludvig Svensson
Bangatan 8
SE - 511 82 Kinna
Sweden

Job Title: Fire Test on One Fabric Sample

Clients Order Ref: --

Date of Receipt: 27 August 2021

Date Test Started: 06 September 2021

Description of Sample: One sample of fabric, which was referenced by the client as;

Article: Macro. Composition: stated to be 85% wool, 15% polyamide. Weight: 335 g/m2.

Work Requested: We were asked to make the following fire test:

IMO FTP Code 2010:Part 8

- * subcontracted test, UKAS accredited
- ** subcontracted test, EN ISO/IEC 17025 accredited
- *** not UKAS accredited



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Note: This report relates only to the samples submitted and as described in the report.

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Product Description

Company Name	SVENSSON
FABRIC	
Type of Furniture, e.g., Seat, Sofa, Office Chair, etc.;	Upholstery fabric
Name and/or Identification of the Product Tested	Macro
Materials of the Product and its Composite Ratio (i)	85% wool, 15% polyamide
Composition of Weave (ii)	Plain
Density (Number/Inch) the Number of Threads per Inch in both warp and weft; and	Warp: 47, Weft: 28
Yarn Number Count	Nm 18/2
Thickness (mm)	--
Mass per Unit Area (g/m ²)	335
Colour and Tone (iii)	Brown
Method and Quantity of Fire Retardant Treatment	None
FILLINGS	
Material (Name of Manufacturer, Type Designation)	
Type of Filling Material (eg. Foam, Polyester Fibre etc.)	
Weight per Unit Volume (kg/m ³)	
Method and Quantity of Fire Retardant Treatment	

- (i) Such as wool, nylon, polyester, etc.
- (ii) Such as plain, weave, twilled.
- (iii) If the product has a pattern, the representative colour shall be described.



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Testing to IMO FTP Code 2010 : Part 8 Test for Upholstered Furniture

Conditioning

Immediately prior to testing the samples was placed in indoor ambient conditions for 72 hours and then conditioned in a standard atmosphere of $23\pm 2^{\circ}\text{C}$ temperature and $50\pm 5\%$ relative humidity for at least 16 hours.

The samples were tested in a room of volume 25m^3 and 19°C .

Procedure

The samples was tested in accordance with IMO FTP Code 2010:Part 8 using ignition sources 0 and 1. The sponsor sampled the material and the specimens were cut from the sample received to the dimensions set out in the standard.

The sample was tested over combustion modified polyurethane foam with a density of approximately $35\text{-}36\text{kg/m}^3$.

Requirements

Ignition Source 0 No progressive smouldering or flaming within 1 hour of the placement of the cigarette.

Ignition Source 1 All progressive smouldering and flaming to cease within 120 sec of removal of the burner tube.

Cigarette Specification (Source 0)

Dimensions (mm)	68mm x 8.0mm
Mass (g)	0.93
Smouldering Rate (mins/secs)	11m 17s



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Results

Cigarette Test – Source 0

Specimen No.	1	2
Extinction Time (smouldering) (min)	DNP	DNP
Time of cover split	DNS	DNS
Melting (Yes/No)	No	No
Dripping (Yes/No)	No	No
Charring (Yes/No)	Yes	Yes
Progressive Smouldering (Yes/No)	No	No
Observations		
Pass/Fail	PASS	PASS

Result of the Cigarette Test: Pass

Propane Flame Test – Source 1

Specimen No.	1	2
Time of Ignition (s)	5	6
Extinction time of flames after removal of burner (s)	1	1
Time to Cover Split (s)	DNO	DNO
Melting (Yes/No)	Yes	Yes
Dripping (Yes/No)	No	No
Charring (Yes/No)	Yes	Yes
Progressive smouldering (Yes/No)	No	No
Observations:		
Pass/Fail	PASS	PASS

Result of the Flame Test: Pass

Acronym

DNP – Did not propagate
 ES – Escalating smouldering
 BTE – Burnt to extremities

EC – Escalating combustion
 DNS – Material did not split

ME – Manually extinguished
 DNO – Did not observe time of event



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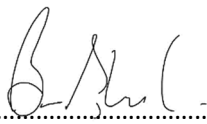
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Comment

In our opinion, based on the test carried out on the sample supplied; the results indicate that the sample meets the requirements according to IMO FTP Code 2010:Part 8.

An estimation of uncertainty of measurement has been taken into account when making a judgment to any pass/fail criteria. Under our Policy we have used a non-binary decision rule.

See our Decision rules Policy (<http://www.bttg.co.uk/decision-rules-policy>) for further information.

Reported by:  B Bland, Technical Customer Services Officer

Countersigned by:  P Doherty, Manager

Enquiries concerning this report should be addressed to Customer Services.



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Uncertainty Budget - Annex

The overall uncertainty budget IMO FTP Code 2010:Part 8 is as follows:-

Measurements: $\pm 1\text{mm}$
Timings: $\pm 2\text{ seconds}$

