



Confidential Report

Our Ref: 23/61631A/12/23





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

Date: 11 December 2023

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Your Ref: ---

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Client: AB Ludvig Svensson

AB Ludvig Svensson
Bangatan 8
511 82 Kinna
Sweden

Job Title: Fire Test on One Fabric Sample

Clients Order Ref: --

Date of Receipt: 07 December 2023

Date Test Started: 11 December 2023

Description of Sample: One sample of fabric, which was referenced by the client as;
Tone Nordshield - 99% Trevira CS, 1% Nordshield BioLayr

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

Note: This report relates only to the items tested.



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Product Description

Company Name	
FABRIC	
Type of Furniture, e.g., Seat, Sofa, Office Chair, etc.;	
Name and/or Identification of the Product Tested	Tone Nordshield
Materials of the Product and its Composite Ratio (i)	>99% Trevira CS <1% Nordshield BioLayr
Composition of Weave (ii)	Weave
Density (Number/Inch) the Number of Threads per Inch in both warp and weft; and	Warp: 50 Weft: 25
Yarn Number Count	Nm 20/2 & dtex 850
Thickness (mm)	
Mass per Unit Area (g/m ²)	280
Colour and Tone (iii)	Green
Method and Quantity of Fire Retardant Treatment	Permanently flame retardant fibre
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 18°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 $34\text{-}36\text{kg}/\text{m}^3$.

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)	69mm x 8.0mm
Mass (g)	0.94
Smouldering Rate (mins/secs)	9m 53s



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Results

Cigarette Test – Source 0

Specimen No.	1	2
Extinction Time (smouldering) (min)	20	22
Time of cover split	DNO	DNO
Melting (Yes/No)	Yes	Yes
Dripping (Yes/No)	No	No
Charring (Yes/No)	Yes	Yes
Progressive Smouldering (Yes/No)	No	No
Observations	DNO	DNO
Pass/Fail	PASS	PASS

Result of the Cigarette Test: Pass

Propane Flame Test – Source 1

Specimen No.	1	2
Time of Ignition (s)	2	2
Extinction time of flames after removal of burner (s)	2	1
Time to Cover Split (s)	4	4
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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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.

Where required to make a judgement to any pass/fail criteria an estimation of uncertainty of measurement has been taken into account. Under our Policy we have used a non-binary decision rule.

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

Uncertainty Budget

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

Reported by:  R Greasley, Laboratory Technician

Countersigned by:  B Bland, Technical Customer Service Officer

Enquiries concerning this report should be addressed to Customer Services.



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