



# Confidential Report

**Our Ref: 23/59547C/03/22**





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

Date: 13 April 2022

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**Client:** Ludvig Svensson

A 511 82 Kinna  
Sweden

**Job Title:** Fire Test on One Fabric Sample

**Clients Order Ref:** --

**Date of Receipt:** 31 March 2022

**Date Test Started:** 12 April 2022

**Description of Sample:** One sample of fabric, which was referenced by the client as;  
Node, stated to be: 85% Wool, 15% Polyamide, Weight: 340 g/m<sup>2</sup>

**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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Client: **Ludvig Svensson**

### Product Description

Company Name	<b>Ludvig Svensson</b>
<b>FABRIC</b>	
Type of Furniture, e.g., Seat, Sofa, Office Chair, etc.;	<b>Upholstery fabric</b>
Name and/or Identification of the Product Tested	<b>Node</b>
Materials of the Product and its Composite Ratio (i)	<b>85% Wool, 15% Polyamide</b>
Composition of Weave (ii)	<b>Plain</b>
Density (Number/Inch) the Number of Threads per Inch in both warp and weft; and	<b>Warp: 47 Weft: 30</b>
Yarn Number Count	<b>Nm 18/2</b>
Thickness (mm)	--
Mass per Unit Area (g/m <sup>2</sup> )	<b>340</b>
Colour and Tone (iii)	<b>Grey</b>
Method and Quantity of Fire Retardant Treatment	<b>None</b>
<b>FILLINGS</b>	
Material (Name of Manufacturer, Type Designation)	--
Type of Filling Material (eg. Foam, Polyester Fibre etc.)	--
Weight per Unit Volume (kg/m <sup>3</sup> )	--
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  $25\text{m}^3$  and  $20^{\circ}\text{C}$ .

### 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)	0.91
Smouldering Rate (mins/secs)	10m 49s



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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	DNP/DNS	DNP/DNS
Pass/Fail	PASS	PASS

**Result of the Cigarette Test: Pass**

### Propane Flame Test – Source 1

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

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.

## Uncertainty Budget

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

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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