



# Confidential Report

**Our Ref: 23/62851B/02/25**





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

Date: 24 February 2025

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Your Ref:

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Client: **AB Ludvig Svensson**

Bangatan 8  
511 8 Kinna  
Sweden

Job Title: Fire Test on One Fabric Sample

Clients Order Ref:

Date of Receipt: 11 February 2025

Date Test Started: 21 February 2025

Description of Sample: One sample of fabric, which was referenced by the client as;  
Polar, 85% Wool, 15% Polyamide

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                                                                          | <b>AB Ludvig Svensson</b>         |
| <b>FABRIC</b>                                                                         |                                   |
| Type of Furniture, e.g., Seat, Sofa, Office Chair, etc;.                              | <b>N/S</b>                        |
| Name and/or Identification of the Product Tested                                      | <b>Polar</b>                      |
| Materials of the Product and its Composite Ratio (i)                                  | <b>85% Wool<br/>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<br/>Weft: 39</b>      |
| Yarn Number Count                                                                     | <b>Nm 32/2, Nm 18/2</b>           |
| Thickness (mm)                                                                        | <b>N/S</b>                        |
| Mass per Unit Area (g/m <sup>2</sup> )                                                | <b>350</b>                        |
| Colour and Tone (iii)                                                                 | <b>Grey</b>                       |
| Method and Quantity of Fire Retardant Treatment (type and amount per m <sup>2</sup> ) | <b>None</b>                       |
| <b>FILLINGS (if applicable)</b>                                                       |                                   |
| Material (Name of the Manufacturer, Type Designation);                                | <b>N/A</b>                        |
| Weight per Unit Volume (kg/m <sup>3</sup> )                                           | <b>N/A</b>                        |
| Method and Quantity of Fire Retardant Treatment (type and amount)                     | <b>N/A</b>                        |

- (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  $34\text{-}36\text{kg/m}^3$ .

### 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)              | 69mm x 8.0mm |
| Mass (g)                     | 0.92         |
| Smouldering Rate (mins/secs) | 9m 43s       |





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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)                                  | 4    | 5    |
| Extinction time of flames after removal of burner (s) | 1    | 2    |
| 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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## Note

The test results relate to the behaviour 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.

## Comment

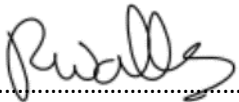
In our opinion, based on the test carried out on the sample supplied; the results indicate that the sample meets the requirements according to IMO FTP Code 2010:Part 8.

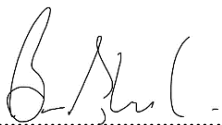
Where required to make a judgement to any pass/fail criteria an estimation of uncertainty of measurement has been taken into account. Under our Policy we have used a non-binary decision rule.

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:  $\pm 2$  seconds.

Reported by:  R Walls, Laboratory Technician

Countersigned by:  B Bland, Technical Customer Service Officer

Enquiries concerning this report should be addressed to Customer Services.



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