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Date: 08 August 2019  
Our Ref: 56621-12  
Your Ref: -  
Page: 1 of 6

Client: Gudbrandsdalens Uldvarefabrik AS  
N-2626 Lillehammer  
Norge  
Norway

Job Title: Fire test on one sample of fabric

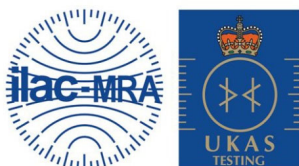
Client's Order No: -

Date of Receipt: 12 July 2019

Date of Test Start: 19 July 2019

Description of Sample(s): One sample of fabric identified as follows was received for testing:  
  
5515/5516/5517 Modal/Modal Point/Modal Mouline

Work Requested: We were asked to make the following test:  
  
IMO FTP Code 2010 Part 8 (Upholstered Furniture)



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TESTING • CERTIFICATION • AUDITING

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## Gudbrandsdalens Uldvarefabrik AS

Sample was identified as follows:

5515/5516/5517 Modal/Modal Point/Modal Mouline

### 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  $20\pm 5^{\circ}\text{C}$  temperature and  $50\pm 20\%$  relative humidity for at least 16 hours.

The samples were tested in a room of volume  $25\text{m}^3$  and  $22^{\circ}\text{C}$ .

#### 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 non-fire retardant polyurethane foam with a density of approximately  $20\text{--}22\text{ kg/m}^3$ .

#### 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 8mm
Mass (g)	0.85
Smouldering Rate (mins/secs)	9.21



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## Product Description

Company Name	Gudbrandsdalens Uldvarefabrik AS
Type of Furniture, e.g., Seat, Sofa, Office Chair, etc.	Seats, sofas and office chairs
Name and/or Identification of the Product Tested	5515 Modal/5516 Modal Point/5517 Modal Mouline
Materials of the Product and its Composite Ratio (i)	70% wool, 30% viscose
Composition of Weave (ii)	Plain weave
Density (Number/Inch) the Number of Threads per Inch in both warp and weft; and	6/5 cm
Yarn Number Count	Nm (warp 4,5/2) (weft 4,5/2)
Thickness (mm)	1,5
Mass per Unit Area (g/mm <sup>2</sup> )	502g/m <sup>2</sup>
Colour and Tone (iii)	Colour range of 50 colours
Method and Quantity of Fire Retardant Treatment	No 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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## RESULTS

Sample Ref: 5515/5516/5517 Modal/Modal Point/Modal Mouline

### 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
Pass/Fail	PASS	PASS

Result of the Cigarette Test: PASS

### Propane Flame Test – Source 1

Specimen No.	1	2
Time of Ignition (s)	4	4
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
Pass/Fail	PASS	PASS

Result of the Flame Test: PASS

### Acronym

DNP – Did not propagate  
ME – Manually extinguished  
DNS – Material did not split  
BTE – Burnt to extremities

EC – Escalating combustion  
ES – Escalating smouldering  
DNO – Did not observe time of event



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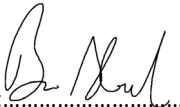
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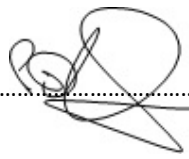
**Gudbrandsdalens Uldvarefabrik AS**

**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.

Uncertainty of measurement has not been taken into account when presenting the test result. The relevant uncertainty value is included as an annex which forms an integral part of the report.

Reported by:   
B Bland  
Laboratory Technician

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:  $\pm 2$  seconds



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