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Date: 09 August 2019
Our Ref: 56621-18
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: 07 August 2019

Description of Sample(s): One sample of fabric identified as follows was received for testing:

5532 Arkiv 3

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

IMO FTP Code 2010 Part 8 (Upholstered Furniture)





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Page: 2 of 6

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Sample was identified as follows:

5532 Arkiv 3

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 25m^3 and 22°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)	0.84
Smouldering Rate (mins/secs)	9.53



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Page: 3 of 6

Gudbrandsdalens Uldvarefabrik AS

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	5532 Arkiv 3
Materials of the Product and its Composite Ratio (i)	75% wool, 22% viscose, 3% polyamide
Composition of Weave (ii)	Modified twill
Density (Number/Inch) the Number of Threads per Inch in both warp and weft; and	9/8 cm
Yarn Number Count	Nm 4,4
Thickness (mm)	1,25
Mass per Unit Area (g/mm ²)	452g/m ²
Colour and Tone (iii)	Colour range of 12 melange 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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Page: 4 of 6

Gudbrandsdalens Uldvarefabrik AS

RESULTS

Sample Ref: 5532 Arkiv 3

Cigarette Test – Source 0

Specimen No.	1	2
Extinction Time (smouldering) (min)	27	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)	5	6
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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Page: 5 of 6

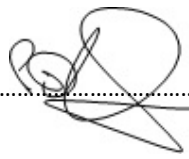
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Comment

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.

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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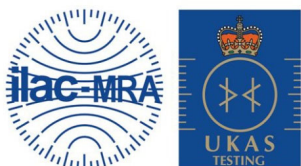
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Uncertainty Budget – Annex

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

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



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