



**FIRE  
TECHNOLOGY  
SERVICES**

## **Confidential Report**

**Our Ref: 27/03316B/10/14**

Notified Body  
for PPE Directive,  
Construction Products  
Regulation & Marine  
Equipment Directive  
I.D. No. 0338 & 0339

**Fire Technology Services  
A division of BTTG T & C Ltd  
Wira House, West Park Ring Road,  
Leeds, LS16 6QL**



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17 October 2014

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Client: Gudbrandsdalens Uldvarefabrik  
Serviceboks  
N-2626 Lillehammer  
Norway

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

Clients Order Ref: ---

Date of Receipt: 9 October 2014

Description of Sample: One sample of fabric, referenced: **5532 Arkiv 3**.

Work Requested: Fire Technology Services were requested to carry out a fire test on the sample supplied to IMO FTP Code 2010:Part 8.





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Gudbrandsdalens Uldvarefabrik

## Product Description Sheet

Company Name	<b>Gudbrandsdalens Uldvarefabrik AS</b>
<b>FABRIC</b>	
Type of Furniture, e.g., Seat, Sofa, Office Chair, etc;.	<b>Seats, sofas and office chairs</b>
Name and/or Identification of the Product Tested	<b>5532 Arkiv 3</b>
Materials of the Product and its Composite Ratio (i)	<b>74% wool / 22% viscose / 4% polyamide</b>
Composition of Weave (ii)	<b>Modified twill</b>
Density (Number/Inch) the Number of Threads per Inch in both warp and weft; and	<b>cm: 9,4 / 8,4</b>
Yarn Number Count	<b>Nm 4,4</b>
Thickness (mm)	
Mass per Unit Area (g/mm <sup>2</sup> )	<b>495 g/m<sup>2</sup></b>
Colour and Tone (iii)	<b>Colour range of 12 melange colours</b>
Method and Quantity of Fire Retardant Treatment	<b>No treatment</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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## **FIRE TESTS ACCORDING to IMO FTP Code 2010:Part 8 (replacing IMO A652 (16)) Test for Upholstered Furniture**

**Date of Test:** 16/10/2014

### **Conditioning**

Immediately prior to testing the sample 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 sample was tested in a room of volume  $25\text{m}^3$  and  $18^{\circ}\text{C}$ .

### **Procedure**

The sample 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 specimens were mounted over fillings of standard non-FR polyurethane foam of density about  $22\text{Kg}/\text{m}^3$ .

### **Requirements**

#### Ignition Source 0

No progressive smouldering or flaming within one hour of the placement of the cigarette.

#### Ignition Source 1

All progressive smouldering and flaming to cease within 120sec of removal of the burner tube.





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**Results**

Ignition Source	Specimen 1		Specimen 2	
	0	1	0	1
Ignition Time (secs.)	---	16	---	11
Extinction Time (Flame) (secs.)	---	20	---	20
Extinction Time (Smoke) (secs.)	2184	25	2230	24
Time of Cover Split (secs.)	DNO	DNS	DNS	DNS

Observations				
Cigarette Did Not Propagate	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
Manually Extinguished	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
Burnt Through Thickness of Foam	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
Material Did Not Split	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>
Burnt to Edge of Specimen	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
Escalating Combustion	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
Escalating Smouldering	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
Did Not Observe Time of Event	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>

**Cigarette Specification (Source 0)**

Dimensions (mm) 69  
Mass (g) 0.90  
Smouldering Rate (secs) 653

**Note**

The test results relate only to the ignitability of the combination of materials under the particular conditions of test; they are not intended as a means of assessing the full potential fire hazard of the materials in use.





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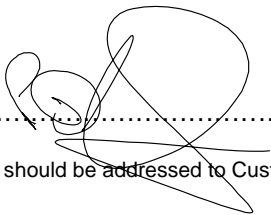
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**Comment**

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

An estimation of uncertainty of measurement has not been taken into account when making a judgement to any pass/fail criteria.

Reported by:.......... P Doherty, Operational Head

Enquiries concerning this report should be addressed to Customer Services.

