



**FIRE
TECHNOLOGY
SERVICES**

Confidential Report

Our Ref: 27/02713C/01/13

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

**Fire Technology Services
A division of BTTG T & C Ltd
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17 January 2013

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Client: Gudbrandsdalens Uldvarefabrik AS
N-2626 Lillehammer
Norway

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

Clients Order Ref: --

Date of Receipt: 9 January 2013

Description of Sample: One sample of fabric, referenced: **5533 Arkiv 4.**

Work Requested: Fire Technology Services were requested to carry out a fire test on the sample supplied to IMO A. 652(16).





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**FIRE TESTS ACCORDING TO IMO RESOLUTION A652 (16) ANNEX
Recommendation on Fire Test Procedures for Upholstered Furniture
Methods of test for the ignitability by smokers' materials of upholstered composites for seating
(Adopted on 6 November 1991)**

Date of Test - 17/01/13

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 25m^3 and 19°C .

Procedure

The sample was tested in accordance with the above resolution 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

	Source 0		Source 1	
	Time of ignition(s)	--	--	13
Time of extinction (Flame) (s)	--	--	21	20
Time of extinction (Smoke) (s)	1643	1562	34	32
Time of cover split(s)	DNS	DNS	DNS	DNS
Melting (Yes or No)	No	No	No	No
Dripping (Yes or No)	No	No	No	No
Charring (Yes or No)	Yes	Yes	Yes	Yes
Other phenomena				
Pass/Fail	Pass	Pass	Pass	Pass

DNS Material did not split

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.

Note

The specimens were tested in the as received condition.

The sample was tested as stated according to the definition given in:

Regulation II-2/3.23.6 and X/3^x of the International Convention for the Safety of Life at Sea, 1974 and its protocol of 1988: articles, annexes and certificates in effect from 1 January 2000.

Regulation II-2/3.40.6 and X/3^x of the International Convention for the Safety of Life at Sea, 1974 and its protocol of 1988: articles, annexes and certificates, 2000 amendments.

Regulation X/3 Safety measures for High Speed Craft. Chapter 7.4.3.3.4 of the 1994 HSC Code and 2000 HSC Code.





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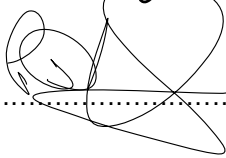
Gudbrandsdalens Uldvarefabrik AS

Comment

The above test results indicate that the sample met the performance requirements as stated in the International Code for Application of Fire Test Procedures (FTP Code)(Resolution MSC.61(67)) Annex 1 Part 8 Test for Upholstered furniture.

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

Reported by:.....  R Ryan, Fire Technician

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

Enquiries concerning this report should be addressed to Customer Services.

