

## TEST CERTIFICATE

DATE SUBMITTED: 11-JANUARY-2016  
DATE ISSUED: 20-JANUARY-2016  
REPORT NO: 34697  
COMPANY ORDER NUMBER: Not Stated

CUSTOMER CONTACT NAME: ROBERT WALTON  
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COMPANY: AGUA FABRICS  
HYDE HOUSE  
THE HYDE  
LONDON  
NW9 6LH

CUSTOMER SAMPLE DESCRIPTION

FIBRE COMPOSITION: Not Stated  
QUALITY / BATCH REF: Agua Taurus  
SAMPLE DESCRIPTION: Not Stated  
SAMPLE END USE: Upholstery  
MANUFACTURER: Not Stated

## INTERNATIONAL MARITIME ORGANIZATION

The was carried out in accordance with ANNEX 1, PART 8 of the 2010 FTP CODE - Test Upholstered Furniture. Performance Criteria (Smouldering Cigarette & Flame Ignition Source Test)

## LAUNDERING PROCEDURE:

The sample was tested after the appropriate conditioning requirements.

## CONDITIONING PRIOR TO TESTING:

The materials to be tested and the cigarettes shall be conditioned immediately before the test for 72 h in indoor ambient conditions and then for at least 16 h in an atmosphere having a temperature of  $23 \pm 2^{\circ}\text{C}$  and a relative humidity of  $50 \pm 5\%$ .

Authorised signatures:

Signed:  v

Zeb Alam  
Technical Manager

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**UPHOLSTERY FILLING FOR SMOULDERING CIGARETTE & MATCH FLAME:**

GRADE: Non Fire - Retardant Foam  
 APPROX DENSITY: 20 – 22 kg per m<sup>3</sup>  
 APPROX HARDNESS RANGE: 130 N

SIZE OF TEST RIG:  
 BACK JUNCTION: 450+/-2 mm x 300+/-2 mm  
 SEAT JUNCTION: 450+/-2 mm x 150+/-2 mm

PROCEDURE:  
 The sample was mounted over the foam described above using the test rig as specified in 2010 FTP Code Annex 1 Part 8 Clause 4 Apparatus

**TESTING ENCLOSURE AND ATMOSPHERE:**

The samples were tested in a substantially draught-free environment, having a temperature of 20 ± 5°C and a relative humidity of 20% to 70% the testing enclosure volume was greater than 20m<sup>3</sup>

**SMOULDERING CIGARETTE USED**

An untipped cigarette, complying with the following requirements:

Length 70 ± 4 mm  
 Diameter 8 ± 0.5 mm  
 Mass 0.95 ± 0.15 g  
 Smouldering rate 11 ± 4.0 min/50 mm

**REQUIREMENTS:**

Ignition Source:	Smouldering Cigarette
Progressive Smouldering (detected within duration):	1 h after ignition of cigarette
Flaming (detected within duration):	1 h after ignition of cigarette
Ignition Source:	Butane Flame
Progressive Smouldering (maximum duration):	120 seconds after ignition of burner
Flaming (maximum Duration):	120 seconds after ignition of burner

DATE OF TEST: 19-January-2016  
 Fire test carried out by: Zeb Alam

**RESULTS:** These 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.

Observation of test:

Ignition Sources		Position	Duration of		Special Features of Burning		Extent of damage to component			
							Vertical (mm)		Horizontal (mm)	
			Flames (minutes)	Smouldering (minutes)	Charring	Melting	Length	Width	Length	Width
Test 1	Cigarette	LHS	00.00	Failed to smoulder	Yes	Yes	N/A	N/A	N/A	N/A
Test 2	Cigarette	RHS	00.00	Failed to smoulder	Yes	Yes	N/A	N/A	N/A	N/A
Test 1	Flame	LHS	00.00	00.00	Yes	Yes	52	20	12	16
Test 2	Flame	RHS	00.00	00.00	Yes	Yes	54	18	14	12

LHS=Left Hand Side M= Middle RHS= Right Hand Side Toc = Top of Composite

**COMMENTS & OBSERVATIONS:**

The sample tested **complies with the flammability criteria** of the FTP Code Annex 1 Part 8 Test Method for Ignitability by Smokers Materials of Upholstered Composites for seating.

Cigarette Test: **MEETS CRITERIA**  
 Match Flame Test: **MEETS CRITERIA**