

**Report Details** 

Report Number 104176 - 1 Service Requested BS 7176: 2008+A1:2011 - Medium Hazard + Watersoak

Date Received 13-Jan-23 Date Tested 19-Jan-23 Date Issued 19-Jan-23

**Customer Details** 

Company Name FLAMENTEK LIMITED

Customer Contact JANE GIRLING Company Address COMPASS HOUSE

Customer Ref/PO 21979 BUNWELL ROAD BESTHORPE

NORFOLK

**NR17 2NZ** 

**Customer Details - As Supplied by the Customer** 

Sample Description STEELCUT 3 - WOVEN FABRIC. TREATED WITH A DURAFLAM® FLAME RETARDANT FORMULATION BY

FABRIC FLARE SOLUTIONS LTD

Fibre Composition 90% NEW WOOL WORSTED, 10% NYLON

Quality/Batch Ref STEELCUT 3

Colour VARIOUS

Sample End Use UPHOLSTERY

Model Ref Manufacturer

Supplier / Buyer KVADRAT A/S

#### **Specification:**

BS 7176:2007+A1:2011 – Specification for the resistance to ignition of upholstered furniture for non-domestic seating by testing composites. (Medium Hazard)

#### **Test Methods:**

BS EN 1021-1:2006 – Furniture – Assessment of the ignitibility of upholstered furniture. Part 1: Ignition source smouldering cigarette.

BS EN 1021-2:2006 - Furniture - Assessment of the ignitibility of upholstered furniture. Part 2: Ignition source match flame equivalent.

BS 5852:2006 Clause 11 Source 5 – Methods of test for the assessment of the ignitibility of upholstered seating by smouldering and flaming ignition sources

#### **Pre-Treatment:**

The sample has been subjected to the water soaking procedure in accordance with Annex D of EN 1021:20065 and Annex E of BS 5852:2006 then line dried in ambient conditions.

#### **Conditioning:**

The sample was conditioned for 72 hrs in ambient conditions then for at least 24 hrs in a specified atmosphere at 23  $\pm$  2C and 50  $\pm$  5% r h.

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### **Test Results**

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The Following test results relate only to the ignitibility of the combination of the 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.

Test Type	1021-1	Test 1	Test 2	
Filling Material Used:		GM33-35	GM33-35	
*Cigarette ceased smoulde	ering within [mins]:	FTS	FTS	
Progressive Smoulder	ring Criteria			
3.1A: Unsafe escalating co	mbustion:			
3.1B: Smoulders to extrem	nities:			
3.1C: Smoulders through t	hickness:			
*3.1D: Smoulders for more	e than 1 hour:			
Evidence of melting / char	ing / dripping:			
3.1E: Presence of active sn	nouldering on final examination:			
Flaming Criteria				
Cover Split				
Occurrence of flames:				
Test Result		PASS	PASS	

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Test Type	1021-2	Test 1	Test 2	Test 3	
Filling Material Used:		GM33-35	GM33-35	GM33-35	
*Flaming Ceased: [Secor	nds]:	0:00	0:00	0:00	
Progressive Smould	ering Criteria				
3.1A: Unsafe escalating	combustion:				
3.1B: Smoulders to extre	emities:				
3.1C: Smoulders through	n thickness:				
*3.1D: Smoulders for mo	ore than 1 hour:				
Evidence of melting / ch	aring / dripping:				
Flaming Criteria					
Cover Split					
3.2A: Unsafe escalating	combustion:				
3.2B: Test assembly cons	sumed:				
3.2C: Flaming to extrem	ities:				
3.2D: Flaming through th	nickness:				
*Flaming continued for I	more then 120 seconds:				
Test Result		PASS	PASS	PASS	

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#### **Test Results**

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The Following test results relate only to the ignitibility of the combination of the 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.

Test Criteria - BS 5852:2006 Source 5	Initial Test	Repeat Test	
*Smoundering Ceased Within: [mins]			
Progressive Smouldering Criteria			
Filling Material Used:	GM33-35		
4.1.1A: Displays unsafe escalating smouldering combustion, requires to be forcibly extinguished?			
4.1.1C: Any test specimen that smoulders until it is essentially consumed			
*4.1.1E: Detectable amounts of smoke, heat or glowing 60 mins after crib ignition?			
4.1.1F: On final inspection, any evidence of charring more than 100 mm in any direction (apart from upwards) from the original nearest position?			
Flaming Criteria			
*Flaming Ceased: [mm:ss]	2.53	3.16	
4.2.1A: Displays unsafe escalating flaming combustion, requires to be forcibly extinguished?			
4.2.1B: Any test specimen that burns until it is essentially consumed within the test duration and requires forcibly extinguishing			
4.2.1C: Flame front reaches the lower margin, either side or passes through the full thickness?			
*4.2.1E: Flaming continued for more than 10 minutes after the ignition of the crib?			
*4.2.1G: Any test specimen from which flaming debris causes an isolated floor fire that continues to flame for longer then 10 mins?			
Test Result	PASS	PASS	

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**Overall Result: PASS** 

The sample supplied meets the test criteria of BS 7176:2007 + A1:2011 (Medium Hazard)

Authorised Signature:

**Zeb Alam** 

**Operations Director** 

The uncertainty of measurement is taken into account when stating conformance to the specification. The test results are compared with the acceptance limits which are determined by reducing the specification limit by the expanded test uncertainty Uk=2 (approximately 95% confidence interval) and providing all measured values are within the tolerance limits then such results are declared as "Pass". The Uncertainty budgets are stated for each test method and should be considered when results are on or close to the acceptance limits, and in such cases it should be noted that the risk of false acceptance or false rejection is ≤2.5%. All test results issued on this report refer only to the item under test as supplied by the customer.

**END OF REPORT** 

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