

# **Confidential Report**

# Our Ref: 23/61010D1/05/23





BTTG		Date:	31 May 2023
TESTING • CERTIFICATION • AUDITING		Our Ref: Your Ref:	23/61010D1/05/23
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Client:	Zimmer + Rohde GmbH		
	Zimmersmuhlenweg 14-18 61440 Oberursel Frankfurt Germany		
Job Title:	Fire Test on One Fabric Sample		
Clients Order Ref:			
Date of Receipt:	12 May 2023		
Date Test Started:	31 May 2023		
Description of Sample:	One sample of fabric, which was referenced by	the client as;	
	10967, stated to be 69%WO 20%CO 11%PAN		
Work Requested:	We were asked to test the received sample to the	he following s	tandard:
	BS EN 1021:Parts 1 & 2:2014 – Ignitability of Up	holstered Fur	niture

subcontracted test, UKAS accredited

\*\* subcontracted test, EN ISO/IEC 17025 accredited

\*\*\* not UKAS accredited

Note: This report relates only to the items tested.

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UKAS





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# FIRE TEST ACCORDING TO BS EN 1021-1:2014 Assessment of the ignitability of upholstered furniture. Part I. Ignition Source 0: Smouldering cigarette

## **Pre-Treatment**

The material received no pre-treatment as the fabric is stated not to be FR treated.

## Conditioning

The materials for testing to Source 0 and 1 were conditioned for a minimum of 24 hours and tested in the environments specified in Clause 7 of BS EN 1021-1 & 2:2014.

The sample was tested in a room of volume 25m<sup>3</sup> and 19ºC.

## Procedure

The test was carried out in accordance with BS EN 1021-1:2014. 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 20-22kg/m<sup>3</sup>.

Tests were made using ignition source 0.

## Requirements

The specimens shall not:-

## Smouldering Criteria

- a) display escalating combustion requiring active extinction.
- b) smoulder or burn until it is essentially consumed within the test duration.
- c) smoulder or burn to the extremities of the specimen, or through the full thickness, within the duration of the test.
- d) smoulder for more than one hour.
- e) on final examination, show evidence of progressive smouldering.





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## **Requirements (continued)**

## Flaming Criteria

a) show evidence of flaming initiated by a smouldering source.

## Results

	Specimen No.		
Smouldering criteria	1	2	31
Unsafe escalating combustion	No	No	
Testing assembly consumed	No	No	
Smoulders to extremities/full thickness	No	No	
Smoulders more than 1 hour	No	No	
In final examination, presence of progressive smouldering	No	No	
Flaming criteria	1	2	31
Occurrence of flames	No	No	
Specimen Result Ignition (I) / Non Ignition (NI)	NI	NI	

Any "Yes" in smouldering or flaming criteria means Ignition

## Cigarette Test Result PASS

## 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.

## Comments

An NI designation indicates that the sample meets the performance requirements of BS EN 1021-1.





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# FIRE TESTS ACCORDING TO BS EN 1021-2:2014 Assessment of the ignitability of upholstered furniture. Part 2. Ignition Source 1: Match flame equivalent.

## **Pre-Treatment**

The material received no pre-treatment as the fabric is stated not to be FR treated.

## Conditioning

The sample was conditioned for at least 24 hours at a temperature of  $23\pm2^{\circ}$ C and relative humidity of  $50\pm5\%$ .

The sample was tested in a room of volume 25m<sup>3</sup> and 19ºC.

## Procedure

The test was carried out in accordance with BS EN 1021-2:2014. 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 20-22kg/m<sup>3</sup>.

Tests were made using ignition source 1.



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## Requirements

The specimens shall not:-

## **Smouldering Criteria**

- a) display escalating combustion requiring active extinction.
- b) smoulders until it is essentially consumed within the test duration.
- c) smoulder to the extremities of the specimen, or through the full thickness, within the duration of the test.
- d) smoulder for more than one hour.
- e) show evidence of charring, other than discolouration, for more than 100mm in any direction apart from the nearest part of the original position of the source.

## Flaming Criteria

- a) display escalating combustion requiring active extinction.
- b) burns until it is essentially consumed within the test duration.
- c) burns to the extremities of the specimen, or through the full thickness, within the duration of the test.
- d) exhibit any flaming for more than 120 seconds after removal of the burner tube.



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#### Results

		Specimen No.	
Smouldering criteria	1	2	31
Unsafe escalating combustion	No	No	
Testing assembly consumed	No	No	
Smoulders to extremities/full thickness	No	No	
Smoulders more than 1 hour	No	No	
In final examination, presence of	No	No	
progressive smouldering			
		•	•
Flaming criteria	1	2	<b>3</b> <sup>1</sup>
Unsafe escalating combustion	No	No	
Testing assembly consumed	No	No	
Flames to extremities/full thickness	No	No	
Flames longer than 120 seconds	No	No	
-			
Specimen Result	NU	NI	
Ignition (I) / Non Ignition (NI)	NI	NI	

Any "Yes" in smouldering or flaming criteria means Ignition

## Match Test Result PASS

## 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.

## Comment

An NI designation indicates that the sample meets the performance requirements of BS EN 1021-2.





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Where required to make a judgement to any pass/fail criteria an estimation of uncertainty of measurement has been taken into account. Under our Policy we have used a non-binary decision rule.

See our decision rules Policy (<u>https://www.bttg.co.uk/about-us/decision-rules-policy/</u>) for further information.

## **Uncertainty Budget**

The overall uncertainty budget for both BS EN 1021: Part 1 and 2:2014 is as follows:-

Timings: Measurements: ±2 seconds. ±2mm.

Reported by:.....

B Bland Technical Customer Service Officer

Enquiries concerning this report should be addressed to Customer Services.

and a	
Countersigned By:	
P Doherty	
Manager	



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