

Fire Test Certificate - Specimen

Fabric: Wool Serge 565

Type: NFPA 701

J&C Joel 
Inspiration in every performance



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Page 1

Received: 03/31/2014	Completed: 04/02/2014	Letter: C	BG	P.O.#: 9556	Test Report #: 3-01380-0-
Client's Identification	Style: Wool Serge. Content: 100% wool. Width: 150 cm. Finish: dyed and treated with flame retardant solution. Weight: 565 grams / sq. meter. End Use: Stage draperies.				
Tested For: Andrew Walsh			Key Test: NFPA 701-2010 TMA#1		205
J & C Joel, Ltd. Corporation Mill, Corporation St. UK Sowerby Brdg, Halifax, W Yorkshire			Tel: 011 422 833 835 Fax: 011 422 835 157		Ext:

PC: 0.5E DL/jd

TEST PERFORMED: NFPA 701 - Standard Methods of Fire Tests for Flame Propagation of Textiles and Films - 2010 Edition - Test Method #1

PRODUCT CONFIGURATION: ☒ Single Layer ☐ Multi Layer

RESULTS REPORTED: ☒ Initially ☐ After 3 dry cleanings ☐ After 3 launderings @ 160°F

RESULTS:

Specimen #	Afterflame* (seconds)	Flaming Drip (seconds)	Weight Loss (percent)
1	0	0	6.7
2	0	0	5.9
3	0	0	6.0
4	0	0	6.5
5	0	0	5.3
6	0	0	6.9
7	0	0	6.0
8	0	0	7.2
9	0	0	6.5
10	0	0	7.1
Mean:		0	Mean: 6.4

STATISTICAL VALUES: SD = 0.6 3 SD = 1.8 Mean + 3 SD = 8.3

ABBREVIATIONS USED: SD = Standard Deviation. NT = Not tested.

APPROXIMATE WEIGHT OF MATERIAL (as measured by Govmark): 590g/m²

PRECONDITIONING: ☒ 0.5 hr @ 220°F (Standard)
☐ 24 hrs @ 60±9°F (Alternate: Material shrinks/distorts @ 220°F)

CONVERSION FACTOR: g/m² + 28.35 x .835 = oz/yd²

NOTE:

1. All specimens prepared in the length direction.
2. See addendum for individual specimen weights.

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Received: 03/31/2014	Completed: 04/02/2014	Letter: C	BG	P.O.#: 9556	Test Report #: 3-01385-0-
Client's Identification	Style: Wool Serge. Content: 100% wool. Width: 150 cm. Finish: dyed and treated with flame retardant solution. Weight: 565 grams / sq. meter. End Use: Stage draperies.				
Tested For: Andrew Walsh	Key Test: NFPA 701-2010 TM#1				205
J & C Joel, Ltd. Corporation Mill, Corporation St. UK Sowerby Brg, Halifax, W Yorkshire	Tel: 011 422 833 835		Ext:		
	Fax: 011 422 835 157				

REMARKS:

- ☒ (X) Flames did not project above the top of the specimen.
☐ () Flames projected above the top of the specimen: Specimen #'s _____
☐ () Other: _____

FAILURE CRITERIA: As cited by NFPA 701 - 2010 Edition Test Method #1

Afterflame	Flaming Drip (Mean)	Weight Loss (percent)	
		Mean	Individual Specimen
*	Exceeds 2 seconds	Exceeds 40%	Exceeds Mean + 3 SD**

CONCLUSION: Based on the Results on page 1 and the above Failure Criteria cited by NFPA 701 - 2010 Edition Test Method #1, the item tested:

- ☒ (X) Passes; ☐ () Fails; ☐ () Requires testing of 10 additional specimens
i.e. only one individual specimen failure was noted

* Afterflame is required to be recorded; however, the NFPA document does not factor it into the Failure Criteria reporting requirements. It should be noted that excessive afterflames (15 seconds or more) could be cause for rejection by local fire authorities performing "match" field tests.

** See "Discussion" on Page 3.

CERTIFICATION: I certify that the above results were obtained after testing specimens in accordance with the procedures and equipment specified by NFPA 701 - 2010 Edition Test Method #1.


APR 09 2014
AUTHORIZED SIGNATURE
THE GOVMARK ORGANIZATION, INC. /js
MS. PHYLLIS PETTIT

JCJ/RDS-N2-2

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Page 3

Received: 03/31/2014	Completed: 04/02/2014	Letter: C	BG	P.O.#: 9556	Test Report #: 3-01380-0-
Client's Identification	Style: Wool Serge. Content: 100% wool. Width: 150 cm. Finish: dyed and treated with flame retardant solution. Weight: 565 grams / sq. meter. End Use: Stage draperies.				
Tested For: Andrew Walsh	Key Test: NFPA 701-2010 TM#1				205
J & C Joel, Ltd. Corporation Mill, Corporation St. UK Sowerby Bldg, Halifax, W Yorkshire			Tel: 011 422 833 835		Ext:
			Fax: 011 422 835 157		

** DISCUSSION:

Weight Loss - Individual Specimen Failure:

The NFPA 701 document, as written, provides for a statistical calculation which provides for retest and a potential failure if any individual value exceeds the mean by three standard deviations. Govmark is of the opinion that this cannot mathematically occur, i.e. no individual result is mathematically capable of exceeding the mean plus three standard deviations. Therefore, in effect, Govmark is of the opinion that this "individual specimen criteria" has no meaning, since it cannot possibly result in a nonconformance.

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The results contained in this report relate only to item(s) tested. The test report shall not be reproduced, except in full, without written approval from The Govmark Organization, Inc.

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Client Name : J&C Joel
Addendum to Test Report # : 3-01380-0
Test : NFPA 701

Specimen #	Weight Before Test (g)	Weight After Test (g)	Percent Weight Loss
1	32.60	30.40	6.7
2	33.80	31.80	5.9
3	33.20	31.20	6.0
4	34.00	31.80	6.5
5	33.80	32.00	5.3
6	34.60	32.20	6.9
7	33.60	31.60	6.0
8	33.20	30.80	7.2
9	33.60	31.40	6.5
10	33.60	31.20	7.1

Mean Percent Weight Loss : 6.4
Standard Deviation : 0.6
3 x Standard Deviation : 1.8
Mean + 3 x Standard Deviation : 8.3

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