

Received:09/03/2014 Completed:09/03/2014 Letter: Q JE P.O.#: DAWN Test Report #: 3-03989-0-

Client's Identification Style: Dawn by Kvadrat.

Tested For: **Lone Henriksen** Key Test: NFPA 701-2010 TM#1 205
Kvadrat A/S
Lundbergsvej 10 Tel: 011 45 89 53 18 66 Ext:
8400 Ebeltoft Denmark Fax: 011 45 89 53 18 00

PC: 0.5H 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 5 launderings @ 160°F

RESULTS:

Specimen #	Afterflame* (seconds)	Flaming Drip (seconds)	Weight Loss (percent)
1	0	0	19.2
2	0	0	26.6
3	0	0	24.1
4	0	0	22.2
5	0	0	20.0
6	0	0	17.3
7	0	0	27.5
8	0	0	16.5
9	0	0	12.3
10	0	0	3.7
	Mean:	0	Mean: 18.9

STATISTICAL VALUES: SD = 7.1 3 SD = 21.3 Mean + 3 SD = 40.2

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

APPROXIMATE WEIGHT OF MATERIAL (as measured by Govmark): 264 g/m²

PRECONDITIONING: 0.5 hr @ 220°F (Standard)
 24 hrs @ 68±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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				Tel: 011 45 89 53 18 66	Ext:	
				Fax: 011 45 89 53 18 00		

REMARKS:

- Flames did not project above the top of the specimen.
- Flames projected above the top of the specimen; Specimen #'s _____
- "+" = specimen's flaming drip extinguished by technician at noted time and when time of drip far exceeded acceptance criteria limit.
- 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:

- 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.

AUTHORIZED SIGNATURE
THE GOVMARK ORGANIZATION, INC. /pm 196

MAH/KVADRAT/MAH

Douglas W. Lipp

SEP 03 2014



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** 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.

Client Name : Kvadrat A/S
Addendum to Test Report # : 3-03989-0
Test : NFPA 701

<u>Specimen #</u>	<u>Weight Before Test (g)</u>	<u>Weight After Test (g)</u>	<u>Percent Weight Loss</u>
1	15.60	12.60	19.2
2	15.80	11.60	26.6
3	15.80	12.00	24.1
4	16.20	12.60	22.2
5	16.00	12.80	20.0
6	16.20	13.40	17.3
7	16.00	11.60	27.5
8	15.80	13.20	16.5
9	16.20	14.20	12.3
10	16.00	15.40	3.7

Mean Percent Weight Loss : 18.9
Standard Deviation : 7.1
3 x Standard Deviation : 21.3
Mean + 3 x Standard Deviation : 40.2