Date: February 16, 2005

Report #

K-422561-011

<u>Client</u>

Westex Inc. 2845 W. 48th Place Chicago, IL 60632

Fabric description

13.5 oz/yd² Indura Ultra Soft Navy Style 801 (measured weight 13.4 oz/yd²)

Reference Standard

ASTM F1959/F1959M-04 Standard Test Method for Determining the Arc Rating of Materials for Clothing

Test Parameters: Test current: 8.20kA

Distance to Fabric: 12 Arc Gap: 12 Number of samples analysed: 21 Incident Energy Range: 17 to 25 cal/cm²

Summary

The arc rating of this material is intended for use as flame resistant clothing for workers exposed to electric arcs. The material used in this test method are in the form of flat specimens, actual performance of the complete garment may vary depending on the final design and assembly of the garment. This test method does not apply to the electrical contact or electrical shock hazard.

Based on the data obtained and analysed in accordance with the latest version of the applicable standards, the following Arc Rating was calculated.

Arc Thermal Performance Value, ATPV = 21.0 Cal/cm² Heat Attenuation Factor, HAF = 85.4%

Panel data and observations of the fabric samples after the arc exposure were collected and summarized in the attached table. The graphs and statistics on the attached sheets provide more detailed information to better understand the Arc Rating assigned to this material. The client shall review this full report, the video recordings of the arc exposure and the photographs of the samples after the test to determine if the material meets the intended specification.

Test performed by:

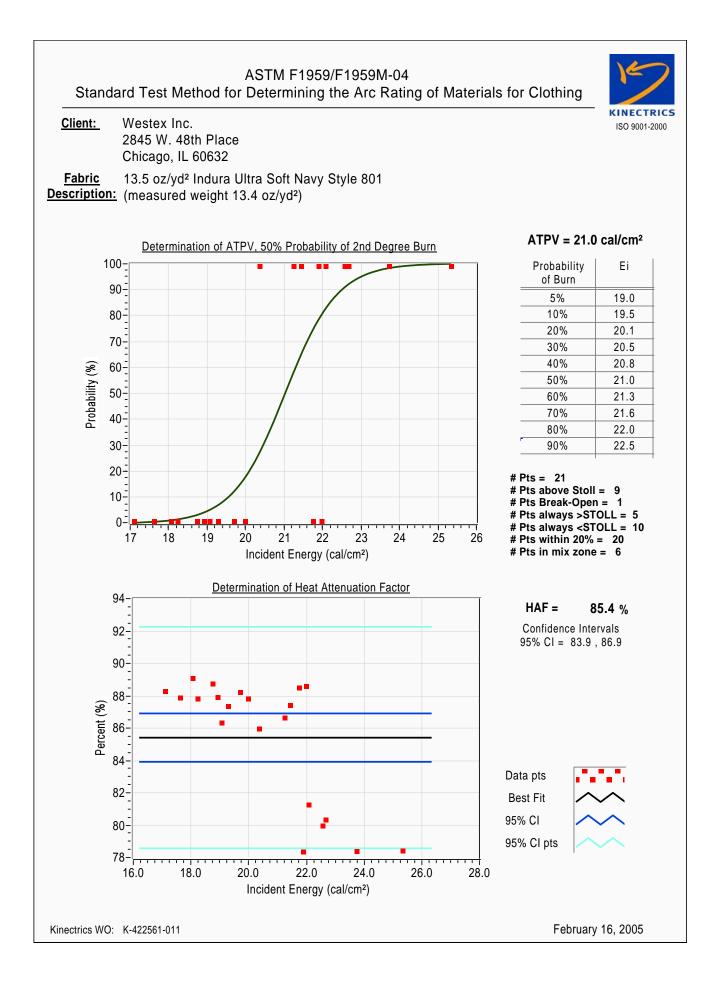
Claude Maurice Kinectrics Inc. 416-207-6305 HCL@kinectrics.com

Contact information

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ASTM F1959/F1959M-04 Standard Test Method for Determining the Arc Rating of Materials for



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Fabric
Description:13.5 oz/yd² Indura Ultra Soft Navy Style 801
(measured weight 13.4 oz/yd²)

	Test #	Panel	Cycles # (60Hz)	Ei cal/cm²	SCD cal/cm ²	HAF %	Burn yes/no	Break Open Y/N	After Flame sec.	Omit Y/N	Comment	lgnition T-shirt
1	05-664	A	24.2	17.62	-0.47	87.89	No	-	-	No	Charred, loss of strength, rips apart easilly	-
2	05-664	В	24.2	19.06	-0.13	86.35	No	-	-	No	1	-
3	05-664	С	24.2	18.92	-0.29	87.92	No	-	-	No	"	-
4	05-665	A	26.1	19.98	-0.16	87.83	No	-	-	No	1	-
5	05-665	В	26.1	19.70	-0.41	88.23	No	-	-	No	1	-
6	05-665	C	26.1	18.23	-0.23	87.83	No	-	-	No	11	-
7	05-666	A	28.1	21.98	-0.22	88.59	No	-	-	No	heavily charred, brittle, very weak, breaks apart when handled.	-
8	05-666	В	28.1	20.36	0.12	85.97	Yes	-	-	No	1	-
9	05-666	С	28.1	21.75	-0.14	88.51	No	-	-	No	"	-
10	05-667	A	31.1	25.34	3.10	78.43	Yes	-	-	No	"	-
11	05-667	В	31.1	21.89	2.26	78.35	Yes	-	-	No	"	-
12	05-667	C	31.1	22.57	2.09	79.99	Yes	-	-	No	"	-
13	05-668	A	30.2	23.73	2.82	78.41	Yes	-	-	No	"	-
14	05-668	В	30.2	22.67	2.03	80.36	Yes	-	-	No	"	-
15	05-668	С	30.2	19.28	-0.09	87.36	No	-	-	No	"	-
16	05-669	A	30.2	22.08	1.70	81.28	Yes	-	-	No	"	-
17	05-669	В	30.2	21.25	0.40	86.64	Yes	Yes	-	No	"	-
18	05-669	С	30.2	21.44	0.19	87.43	Yes	-	-	No	"	-
19	05-670	A	25.2	17.10	-0.37	88.30	No	-	-	No	Charred, loss of strength, rips apart easilly	-
20	05-670	В	25.2	18.74	-0.45	88.76	No	-	-	No	1	-
21	05-670	C	25.2	18.06	-0.40	89.10	No	-	-	No	"	-
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