Date: Monday, February 17,	High Current Test Laboratory Kinectrics Inc., Canada Test Summary	KINECTRICS ISO 9001-2000
Report # K-3514-007		

Client

Westex Inc

Fabric description

Style 315, 12.6 oz, USS green

Reference Standard

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

Test Parameters: Test current: 8.23kA

Distance to Fabric: 12

Arc Gap: 12

Number of samples analysed: 21

Incident Energy Range: 10 to 16 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.

The original arc exposure for this fabrics was performed under ASTM F1959/F1959M-99. The raw data was re-analysed and the arc rating calculated to comply with ASTM F1959/F1959M-04.

Arc Thermal Performance Value, ATPV = 12.9 Cal/cm²
Heat Attenuation Factor, HAF = 80.1%

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:

Josh Moody, Westex Inc

Contact information

Spare

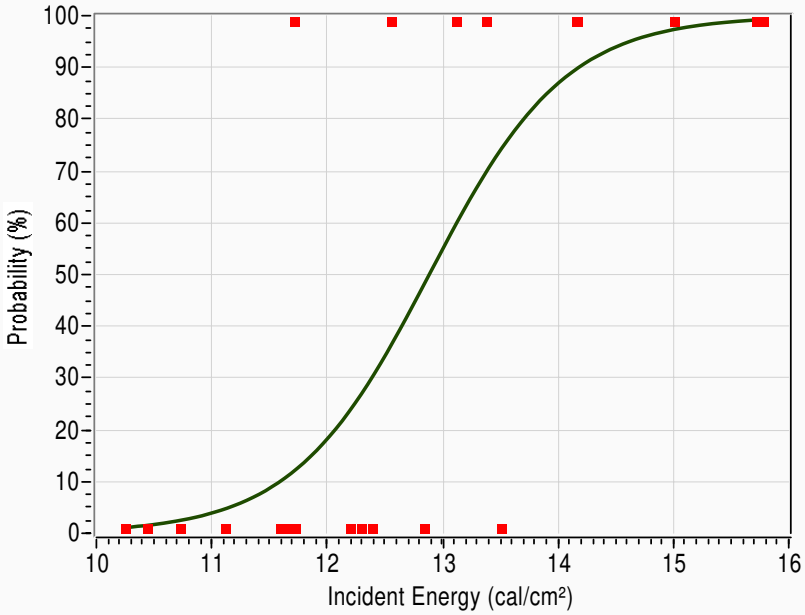
ASTM F1959/F1959M-04
Standard Test Method for Determining the Arc Rating of Materials for Clothing

KINECTRICS
ISO 9001-2000

Client: Westex Inc

Fabric Description: Style 315, 12.6 oz, USS green

Determination of ATPV, 50% Probability of 2nd Degree Burn

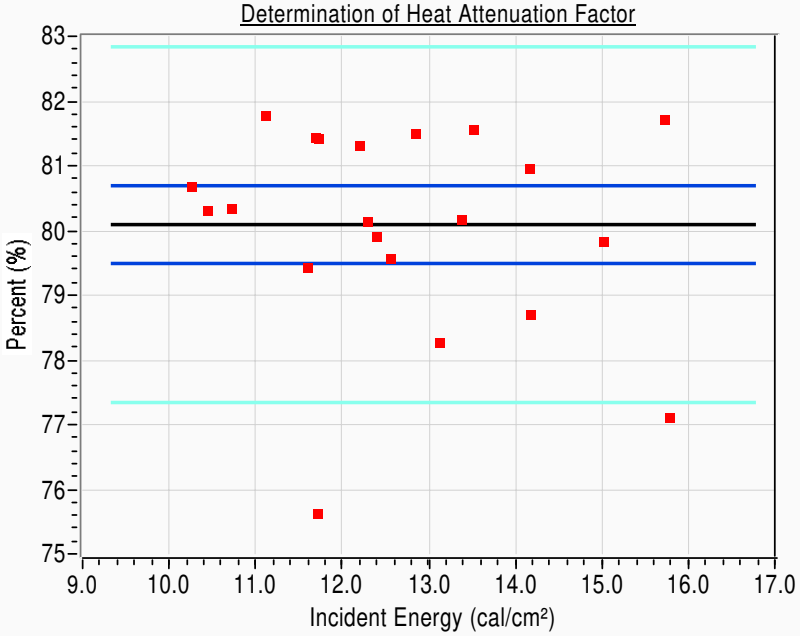


ATPV = 12.9 cal/cm²

Probability of Burn	Ei
5%	11.1
10%	11.6
20%	12.1
30%	12.4
40%	12.6
50%	12.9
60%	13.1
70%	13.4
80%	13.7
90%	14.2

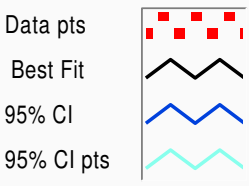
 # Pts = 21
 # Pts above Stoll = 9
 # Pts Break-Open = 0
 # Pts always >STOLL = 5
 # Pts always <STOLL = 6
 # Pts within 20% = 18
 # Pts in mix zone = 10

Determination of Heat Attenuation Factor



HAF = 80.1 %

Confidence Intervals
95% CI = 79.5 , 80.7



Kinectrics WO: K-3514-007

Monday, February 17, 2003

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

KINECTRICS
ISO 9001-2000

Client: Westex Inc

Fabric Description: Style 315, 12.6 oz, USS green

	Test #	Panel	Cycles # (60Hz)	Ei cal/cm²	SCD cal/cm²	HAF %	Burn yes/no	Break Open Y/N	After Flame sec.	Omit Y/N	Comment	Ignition T-shirt
1	03-390	A	18.1	15.78	1.01	77.12	Yes	-	-	No	-	-
2	03-390	B	18.1	14.17	0.45	78.70	Yes	-	-	No	-	-
3	03-390	C	18.1	15.01	0.34	79.83	Yes	-	-	No	-	-
4	03-391	A	17.2	15.72	0.22	81.72	Yes	-	-	No	-	-
5	03-391	B	17.2	13.38	0.10	80.18	Yes	-	-	No	-	-
6	03-391	C	17.2	13.12	0.23	78.27	Yes	-	-	No	-	-
7	03-392	A	14.7	11.59	-0.11	79.44	No	-	-	No	-	-
8	03-392	B	14.7	11.71	0.45	75.63	Yes	-	-	No	-	-
9	03-392	C	14.7	11.11	-0.35	81.78	No	-	-	No	-	-
10	03-393	A	14.1	11.68	-0.32	81.44	No	-	-	No	-	-
11	03-393	B	14.1	12.84	-0.13	81.51	No	-	-	No	-	-
12	03-393	C	14.1	10.44	-0.20	80.31	No	-	-	No	-	-
13	03-394	A	14.1	10.72	-0.36	80.35	No	-	-	No	-	-
14	03-394	B	14.1	11.72	-0.27	81.42	No	-	-	No	-	-
15	03-394	C	14.1	10.25	-0.40	80.68	No	-	-	No	-	-
16	03-395	A	16.1	14.16	0.16	80.97	Yes	-	-	No	-	-
17	03-395	B	16.1	12.20	-0.23	81.32	No	-	-	No	-	-
18	03-395	C	16.1	12.29	-0.17	80.15	No	-	-	No	-	-
19	03-396	A	16.1	13.51	-0.03	81.57	No	-	-	No	-	-
20	03-396	B	16.1	12.55	0.07	79.57	Yes	-	-	No	-	-
21	03-396	C	16.1	12.39	-0.02	79.92	No	-	-	No	-	-
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