Report # K-656007-2007F06-R00

Samples Received: Samples Tested: Jul-15-20 Jul-22-20

Test Report

Kinectrics Inc., 800 Kipling Avenue, Unit 2 Toronto, Ontario, Canada Tel: 416-207-6000, www.kinectrics.com



Tested for

ArcWear.com 3018 Eastpoint Parkway Louisville, KY 40223 ArcTesting@ArcWear.com

Contact information for item tested:

Honeywell Salisbury 4091 Azalea Dr North Charleston, SC 29415

Test item description

Honeywell Salisbury, Faceshield, Model AS1200-PP, Polycarbonate, Grey, Thickness .090",

Hard Hat: Mfg. Honeywell, North Zone Model N10, N20, Class E, Type 1,

Arcwear# 2007F06

Reference Standard

ASTM F2178-17b

Standard Test Method for Determining the Arc Rating and Standard Specification for Eye or Face Protective Products

Test Parameters: Test current: 8 kA Number of samples analysed: 24

<u>leters:</u> Test current: 8 kA

Distance to Fabric: 30 cm

Number of samples analysed: 24

Incident Energy Range: 7 to 26 cal/cm²

Arc Gap: 30 cm

Arc Rating, ATPV = 19 Cal/cm² Heat Attenuation Factor, HAF = 90%

No variations to standard method noted. Samples tested as received, samples not laundered.

Test Summary

The Arc Rating of this material is intended for use as part of a flame resistant garment or system for workers exposed to electric arcs. The test result is applicable only to the test item as described; other fiber blends, weaves, finishing or dye may have different protection level. The test articles are tested as received; no test is done to validate the fiber content or composition. The Arc Rating was calculated based on the data obtained and analysed in accordance with the latest version of the applicable standards. The individual test sheets, graphs, photographs of the samples and video of every test are provided in digital format to the Client for review.

The arc testing performed to the above mentioned Standard is accredited by the Standards Council of Canada (SCC) to conform to the requirements of CAN-P-4E (ISO/IEC 17025:2005). Accreditation by the Standards Council of Canada (SCC) is a mark of competence and reliability recognized throughout the world.

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Note: The test performed does not apply to electrical contact or electrical shock hazard.

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Prepared by: Approved by:

Robert Ferraz HCL Technologist Kinectrics Inc. Andrew Haines HCL Supervising Technologist Kinectrics Inc.

Note: For verification about results in this report, please forward copy of the report or inquiry to hcl@kinectrics.com

Date: Jul-22-20

Report # K-656007-2007F06-R00 Determination of ATPV by performing logistic regression on the panel burn response as indicated in Summary Table

Test Performed in accordance with: ASTM F2178-17b



Fabric Description:

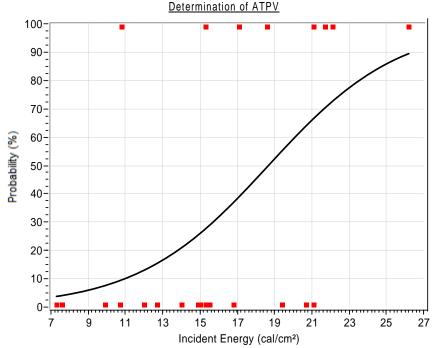
Honeywell Salisbury,

Faceshield, Model AS1200-PP,

Polycarbonate, Grey, Thickness .090",

Hard Hat: Mfg. Honeywell, North Zone Model N10, N20, Class E, Type 1,

Arcwear# 2007F06

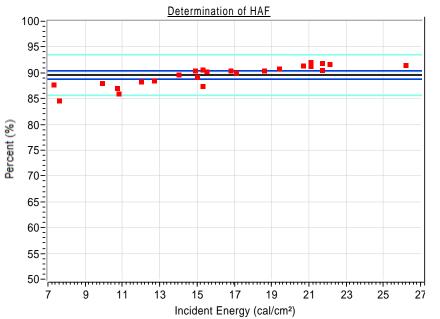


ATPV = 19 cal/cm²

Probability	Ei
5%	8.3
10%	11.0
20%	13.8
30%	15.7
40%	17.2
50%	18.7
60%	20.1
70%	21.7
80%	23.5
90%	26.2

(Note: ATPV is reported to nearest integer for ratings above 10 cal/cm²)

Total points analyzed = 24
Points above Stoll = 9
Points above mix zone = 5
Points below mix zone = 4
Pts within 20% = 14
Pts in mix zone = 14



HAF = 90 %Confidence Intervals
95% CI = 89.2, 90.8

Data pts
Best Fit
95% CI

95% CI pts



Date: Jul-22-20

Summary of Measured Energy and Observations

Test Performed in accordance with: ASTM F2178-17b

Report #

K-656007-2007F06-R00

Fabric Honeywell Salisbury,

Description: Faceshield, Model AS1200-PP, Polycarbonate, Grey, Thickness .090",

Hard Hat: Mfg. Honeywell, North Zone Model N10, N20, Class E, Type 1,

Arcwear# 2007F06

	Test #	Panel	Test Current A	Cycles of 60Hz	Ei Cal/cm²	SCD Cal/cm ²	HAF %	>Stoll Y/N	Break Open Y/N	Ablation Y/N	After Flame sec.	Omit Y/N	Comment
1	K-656007-4328	Α	8237	20.2	14.0	-0.1	89.7	No	N	-	0	No	
2	K-656007-4328	В	8237	20.2	15.3	-0.2	90.6	No	N	-	0	No	
3	K-656007-4329	Α	8202	25.2	15.5	-0.2	90.2	No	N	-	0	No	
4	K-656007-4329	В	8202	25.2	21.7	0.0	91.9	Yes	N	-	0	No	Exceeded stoll on LE and Mouth sensors.
5	K-656007-4330	Α	8135	30.2	26.2	0.2	91.5	Yes	N	-	0	No	Exceeded stoll on ALL sensors.
6	K-656007-4330	В	8135	30.2	21.7	0.2	90.5	Yes	N	-	0	No	Exceeded stoll on LE, RE and Mouth sensors.
7	K-656007-4331	Α	8154	27.2	18.6	0.1	90.4	Yes	N	-	0	No	Exceeded stoll on Mouth sensor.
8	K-656007-4331	В	8154	27.2	19.4	-0.1	90.8	No	N	-	0	No	
9	K-656007-4332	Α	8137	23.2	16.8	-0.1	90.4	No	N	-	0	No	
10	K-656007-4332	В	8137	23.2	17.1	0.1	90.1	Yes	N	-	0	No	Exceeded stoll on LE, RE and Mouth sensors.
11	K-656007-4333	Α	8127	28.2	22.1	0.0	91.7	Yes	N	-	0	No	Exceeded stoll on RE sensor.
12	K-656007-4333	В	8127	28.2	21.1	0.2	91.3	Yes	N	-	0	No	Exceeded stoll on RE and Mouth sensors.
13	K-656007-4334	Α	8124	25.2	15.0	-0.1	89.2	No	N	-	0	No	
14	K-656007-4334	В	8124	25.2	20.7	-0.1	91.4	No	N	-	0	No	
15	K-656007-4335	Α	8113	25.2	15.3	0.4	87.4	Yes	N	-	0	No	Exceeded stoll on LE, RE and Mouth sensors.
16	K-656007-4335	В	8113	25.2	21.1	-0.1	92.1	No	N		0	No	
17	K-656007-4336	Α	8175	17.2	10.8	0.0	86.0	Yes	N	-	0	No	Exceeded stoll on LE and Mouth sensors.
18	K-656007-4336	В	8175	17.2	14.9	-0.1	90.4	No	N	-	0	No	
19	K-656007-4338	Α	8239	13.2	9.9	-0.2	88.0	No	N	-	0	No	
20	K-656007-4338	В	8239	13.2	10.7	-0.1	87.0	No	N	-	0	No	
21	K-656007-4339	Α	8306	11.2	7.3	-0.5	87.7	No	N	-	0	No	
22	K-656007-4339	В	8306	11.2	7.6	-0.3	84.6	No	N	- 1	0	No	
23	K-656007-4340	Α	8161	16.7	12.0	-0.2	88.3	No	N	-	0	No	
24	K-656007-4340	В	8161	16.7	12.7	-0.1	88.5	No	N	-	0	No	
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There was no evidence of melting, dripping, ignition or afterflame or break-open in any of the samples tested.

Photographs

The following photographs are representative of test results observed.





Figure 1. Faceshield before arc exposure.



Figure 2. Faceshield after arc exposure at 18.6 -19.4 cal/cm².