

Report # K418709-1409P17-R01

# Test Report

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



Samples Received:  
Sept. 2, 2014

Samples Tested:  
Sept. 26 & Oct. 3, 2014

## Tested for

ArcWear.com  
Hugh Hoagland  
ArcTesting@ArcWear.com  
502-333-0510

## Contact information for item tested:

## Test item description

Style FD352, 5.8 oz/yd<sup>2</sup> 197 g/m<sup>2</sup> Twill, Light Blue,  
AAD 5.7 oz/yd<sup>2</sup> 193 g/m<sup>2</sup>,  
ArcWear# 1409P17

## Reference Standard

ASTM F1959/F1959M-12  
Standard Test Method for Determining the Arc Rating of Materials for Clothing

## Test Parameters:

Test current: 8 kA  
Arc Gap: 30 cm  
Distance to Fabric: 30 cm

Number of samples analysed: 37  
Incident Energy Range: 5 to 24 cal/cm<sup>2</sup>

**Arc Rating, ATPV = 6.6 Cal/cm<sup>2</sup>**  
**Material Break-Open, Ebt = 14 Cal/cm<sup>2</sup>**  
**Heat Attenuation Factor, HAF = 74%**  
No variations to standard method noted.

Samples tested as received, pre-test laundering as required by standard was arranged by client.

## 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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Performed by:

Andrew Haines  
Station Operator, HCL  
Ph: 416-207-6000

Digitally signed by

Andrew Haines  
Date: 2014.10.06  
14:21:14 -04'00'

Approved by:

Claude Maurice  
Test laboratory manager  
Kinectrics Inc.

2014.10.10 09:32:53  
-04'00'

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