

**KINECTRICS**

TEST REPORT

Kinectrics Inc., 800 Kipling Avenue,
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Tel: 416-207-6305

Test Item: WNPZ101600, Gore® Fabric for Chemical Protection, 3 ply laminate
Measured weight: 6.7 oz/yd²
Laundered by Client, 3x1 HML.

Test Performed: Determination of arc thermal protection level of material for clothing,
Test Date: March 22, 2006

Reference Standard: **ASTM F1891-02/ ASTM F1959-04**, *Standard Test Method for Determining Arc Thermal Performance of Textile Materials for Clothing by Electric Arc Exposure Method Using Instrumented Sensor Panels.*

Client: Ansell protective Clothing
1200 East Sunrise Ave.
Thomasville, NC 27360

Summary

The Arc Thermal Performance Value (ATPV) was determined by the arc test and analysis method defined in the Reference Standard. This test was performed on the fabric samples prepared and laundered by the Client. The actual weight was determined by an average of the die cut pieces taken from the extra samples provided. The samples were tested as received and the observations for each test were documented and provided in this report.

Photographs of all samples were taken and provided on CD. Representative photographs show the fabric after the arc exposure at different incident energy levels. The graphics of the test data shows the analysis method and distribution of the data used in the determination of the ATPV. Additional tests were done at higher levels to observe material response and establish the break-open threshold. Because of the limited number of samples available, the full evaluation to determine Ebt (break-open threshold) could not be completed. The Summary Table provides a list of the incident energy and observations for each test.

Test Condition: Current: 8 kA rms, Arc length: 30 cm, Spacing: 30cm, Sample size: 30 x 66 cm

Arc Thermal Performance Value, ATPV = 9.0 cal/cm²

Material Break-Open Threshold, Ebt = 19 cal/cm²

Heat Attenuation Factor (HAF) = 72%

Prepared by:

Claude Maurice
Test Specialist

Approved by:

Dr. J. Kuffel, P. Eng
General Manager, Kinectrics Inc.

- This Test Performed does not apply to the electrical contact or electrical shock hazard.
- The test result is applicable only to the Test Item. Other material or color may have different protection level.

Kinectrics Inc. has prepared this report in accordance with, and subject to, the terms and conditions of the contract between Kinectrics Inc. and the Client.