

Test Certificate n°

**15EP2300**

AITEX declares that the articles

**FABRIC V221 Bizflame Plus**

Composition: 99% cotton, 1% a/s, 210g./m<sup>2</sup>.

Given by the company

**PORTWEST LTD  
WESTPORT BUSINESS AND TECHNOLOGY  
PARK  
WESTPORT  
CO MAYO**

Complies with the requirements of the standard/s:

**EN ISO 11612:2015 Protective clothing - Clothing to protect against heat and flame - Minimum performance requirements.**

- 6.2.1 Heat resistance (180)°C - Pass (x 50 cycles washing)
- 6.3.2 Limited flame spread. Method A. - A1 (as received and x50 cycles washing)
- 6.3.3 Limited flame spread. Method B. - A2 (as received and x50 cycles washing)
- 6.4 Dimensional change. - Pass (x 5 cycles washing)
- 6.5.1 Tensile strength. - Pass (x 50 cycles washing)
- 6.5.2 Tear strength. - Pass (x 50 cycles washing)
- 7.2 Convective heat B1 (x 50 cycles washing)
- 7.3 Radiant heat. - C1 (x 50 cycles washing)
- 7.5 Molten iron splash. - E2 (x 50 cycles washing)
- 7.6 Contact heat. - F1 (x 50 cycles washing)

**EN ISO 11611:2015 Protective clothing for use in welding and allied processes**

- 6.5 Dimensional change. - Pass (x 5 cycles washing)
- 6.7.2 Limited flame spread. Method A. - A1(x 50 cycles washing)
- 6.7.3 Limited flame spread. Method B. - A2(x 50 cycles washing)
- 6.8 Impact of spatter. - (Class 1) (x 50 cycles washing)
- 6.9 Radiant heat. - Class 1 (x 50 cycles washing)
- 6.10 Electrical resistance. - Pass (x 50 cycles washing)

**UNE-EN 1149-5:2008 Protective clothing. Electrostatic properties. Part 5: Material performance and design requirements.**

- 4.2.1. Charge decay. Method 2 according UNE-EN 1149-3:2004. - Pass (x 5 cycles washing)

The test results above indicated, are shown in the testing report/s:

**2015EP2300**

Issued by AITEX

This document is of application for the tested sample, according to the tests that have been done in the previously mentioned dates in the reports above shown.

This does not implies any monitoring or control activity on this product done by AITEX:



Signed by Raquel Muñoz González  
Chief of Innovation

10/12/2015



Test Certificate nº

**15EP2574**

AITEX declares that the articles:

**FABRÍC V221 BIZFLAME PLUS**

FABRIC CODE: VU66NAT240

Given by the company:

**PORTWEST LTD d/b/a  
PORTWEST LLC  
1272 Omega parkway  
Shepherdsville, KY 40165  
USA**

Complies with the requirements of the standard/s:

ASTM F1506 – 10a. "Standard Performance Specification for Flame Resistant and Arc Rated Textile Materials for Wearing Apparel for Use by Electrical Workers Exposed to Momentary Electric Arc and Related Thermal Hazards" according to NFPA 70E Table 130.7(C)(14).

|              | TEST  | RESULTS  | REQUERIMENTS  | FULFILLMENT                        | TEST REPORT |
|--------------|---|--|---|------------------------------------|-------------|
| Clause 7.1   | Breaking Load - ASTM D5034  | Warp 628,94 N<br>Weft 213,62 N   | 179 N   | PASS                               | 2015EP2573  |
| Clause 7.2   | Tear Resistance – ASTM D1424<br>ASTM D2262                                | Warp 36,82 N<br>Weft 19,96 N   | 18 N  | PASS                               | 2015EP2573  |
| Clause 7.4.1 | Colour fastness to laundering - AATCC TM61                                | Change in color: 4-5<br>Staining: 4  | Class 3   | PASS                               | 2015EP2573  |
| Clause 7.5   | Dimensional Change after 5 washing cycles -<br>AATCC TM135 3IV Aiii       | Warp 2,1%<br>Weft -2,4%  | ± 3% in both directions                                       | PASS                               | 2015EP2573  |
| Clause 7.6   | Flammability as received – ASTM D6413                                     | No melt and drip<br>Afterflame 0 s<br>Char length warp 69 mm<br>Char length weft 72 mm | No melt and drip,<br>Afterflame < 2s.<br>Char length ≤ 152 mm | PASS                               | 2015EP2573  |
|              | Flammability after 25 washing cycles AATCC TM135<br>3IV Aiii - ASTM D6413 | No melt and drip<br>Afterflame 0 s<br>Char length warp 66 mm<br>Char length weft 66 mm |   | PASS                               | 2015EP2573  |
| Clause 7.8   | Arc Rating – ASTM F1959/F1959M  | Afterflame < 5s.   | Afterflame < 5s.  | PASS                               | 2015EP2586  |
|              |   | Arc rating<br>(ATPV) = 8,2 cal/cm <sup>2</sup>   | ---   | Hazard category risk<br>2 NFPA 70E | 2015EP2586  |


The test results above indicated are shown in the testing report/s:

**2015EP2574 – 2015EP2586**

Issued by AITEX

This document is of application for the tested sample, according to the tests that have been done in the previously mentioned dates in the reports above shown.

This does not imply any monitoring or control activity on this product done by AITEX.



Signed by Raquel Muñoz González  
Manager Innovation Area

21/10/2015

