

CERTIFICATE OF COMPLIANCE

Certificate Number 041614-MH49998
Report Reference MH49998-20140203
Issue Date 2014-April-16

Issued to: Portwest Ltd.
Portwest House
Westport Business and Technology Park
Castlebar Road
Westport, Co. Mayo, Ireland


This is to certify that representative samples of Flash Fire Protective Garments
Coveralls: UFR50, UFR51, UFR88, UFR48, UBiz1, UBiz5

Have been investigated by UL in accordance with the Standard(s) indicated on this Certificate.

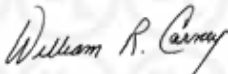
Standard(s) for Safety: NFPA 2112, Standard on Protective Garments for Protection of Industrial Personnel Against Flash Fire, 2012 Edition

Additional Information: See the UL Online Certifications Directory at www.ul.com/database for additional information

Only those products bearing the UL Classification Mark should be considered as being covered by UL's Classification and Follow -Up Service.

The UL Classification Mark includes: UL in a circle: with the word "CLASSIFIED"  (as shown); a control number (may be alphanumeric) assigned by UL; a statement to indicate the extent of UL's evaluation of the product; and the product category name (product identity) as indicated in the appropriate UL Directory.

Look for the UL Classification Mark on the product.



William R. Carney, Director, North American Certification Programs

UL LLC

Any information and documentation involving UL Mark services are provided on behalf of UL LLC (UL) or any authorized licensee of UL. For questions, please contact a local UL Customer Service Representative at www.ul.com/contactus



Test Certificate n°

14EP0159

AITEX declares that the articles:

FABRIC CODE: VU66NAS370 FOR UFR50/UFR51
Woven fabric, 99% cotton, 1% antistatic fiber 350 g/m² – 10,3 oz/yd²
According to information supplied by the customer.

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:

NFPA 2112 -2012 EDITION. "Standard on Flame-Resistant Garments for Protection of Industrial Personnel Against Flash Fire"

TEST	RESULTS	REQUERIMENTS	FULFILLMENT	TEST REPORT	
Clause 7.1.1	Section 8.2 Heat Transfer Performance (HTP) Test as received	Contact 47.75 J/cm ² Spaced 50.84 J/cm ²	> 12.6 J/cm ² measured in "contact," > 25 J/cm ² measured "space."	PASS	2014EP0159
	Section 8.2 Heat Transfer Performance (HTP) Test after 3 washing cycles according to section 8.1.3	Contact 55.06 J/cm ² Spaced 54.87 J/cm ²		PASS	2014EP0159
Clause 7.1.2	8.3 Flame Resistance Test as received	No melt and drip Afterflame 0 s Char length warp 57.6 mm Char length weft 60.8 mm	No melt and drip Afterflame < 2s. Char length ≤ 100 mm	PASS	2014EP0159
	8.3 Flame Resistance Test after 100 washing cycles according to section 8.1.3	No melt and drip Afterflame 0 s Char length warp 60.6 mm Char length weft 54.4 mm		PASS	2014EP0159
Clause 7.1.3	8.4 Heat and Thermal Shrinkage Resistance Test as received	Warp -0.5% Weft -0.7% No melt, drip, ignition or separation	± 10% in both directions No melt, drip, ignition or separation	PASS	2014EP0159
Clause 7.1.4	8.4 Heat and Thermal Shrinkage Resistance Test after 3 washing cycles according to section 8.1.3	Warp -0.9% Weft -1.6% No melt, drip, ignition or separation		PASS	2014EP0159
Clause 7.1.5	8.5 Manikin Test after 1 washing cycle according to section 8.1.3	10.7 % - Predicted 2 nd and 3 rd burn injury	Body burn prediction of < 50 of the surface area covered by sensors (hands and feet are excluded)	PASS	2014EP0159

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

2014EP0159

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

26/02/2014



Test Certificate n°

14EP0158

AITEX declares that the articles:

FABRIC CODE: VU66NAS370 FOR UFR50/UFR51

Woven fabric, 99% cotton, 1% antistatic fiber 350 g/m² – 10,3 oz/yd²
According to information supplied by the customer.

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 583,57 N Weft 446,89 N	223 N	PASS	2014EP0158
Clause 7.2	Tear Resistance - ASTM D2262	Warp 24,92 N Weft 23,13 N	22 N	PASS	2014EP0158
Clause 7.3	Seam Slippage - ASTM D 434	Warp 277,43 N Weft 237,19 N	223 N	PASS	2014EP0158
Clause 7.4.1	Colour fastness to laundering - AATCC TM61	Change in color: 5 Staining: 4-5	Class 3	PASS	2014EP0158
Clause 7.5	Dimensional Change after 5 washing cycles - AATCC TM135 3IV AII	Warp -1,1% Weft -3,0%	± 3% in both directions	PASS	2014EP0158
Clause 7.6	Flammability as received - ASTM D6413	No melt and drip Afterflame 0 s Char length warp 57 mm Char length weft 60 mm	No melt and drip Afterflame < 2s Char length ≤ 152 mm	PASS	2014EP0158
	Flammability after 25 washing cycles AATCC TM135 3IV AII - ASTM D6413	No melt and drip Afterflame 0 s Char length warp 45 mm Char length weft 54 mm		PASS	2014EP0158

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

2014EP0158

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

26/03/2014

