## 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 Flash Fire Protective Garments

representative samples of 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 <a href="https://www.ul.com/contactus">www.ul.com/contactus</a>

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# **TEST CERTIFICATE**

14EP0152

### AITEX declares that the articles:

FABRIC CODE: VU25NAT340 FOR UBIZWELD 1 / UBIZWELD 5

Woven fabric, twill 3/1, 100% cotton, 340 g/m2 - 10 oz/yd2 According to information supplied by the customer.

#### Siver 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	REQUER MENTS	FULFILLMENT	TEST REPORT
Clause 7.1.1	Section 5.2 Heat Transfer Performance (HTP) Test as received	Contact 43,88 J/cm <sup>2</sup> Spaced 44,61 J/cm <sup>2</sup>	> 12.6 J/cm² measured in "contact," > 25 J/cm² measured "space,"	PASS	2014EP0152
	Section 8.2 Heat Transfer Performance (HTP) Test after 3 washing cycles according to section 8.1.3	Contact 43,03 J/cm <sup>2</sup> Spaced 43,96 J/cm <sup>2</sup>		PASS	2014EP0152
Clause 7.12	8.3 Flame Resistance Test as received	No melt and drip Afterfame 0 s Char length work 51,2 mm	No melt and drip Afferflame < 2s. Char length ≤ 100 mm	PASS	2014EP0152
	8.3 Flame Resistance Test after 100 washing cycles according to section 8.1.3	No met and drip. Afterfame 0 s Char length warp 64 mm Char length weft 64 mm		PASS	2014EP0152
Clause 7.1.3	8.4 Heat and Thermal Shrinkage Resistance Test as recleved	Waro -0.1% Weft -0.2% No meth drip ignition or separation	± 10% in both directors No melt, origi ignition or separation	PASS	2014EP0152
Clause 7.1.4	8.4 Heat and Thermel Shrinkage Resistance Test. after 3 washing cycles according to section 8.1.3	Warp -0,9% Weft -0,5% No melt, drip, ignition or separation		PASS	2014EP0152
Clause 7.1.5	8.5 Manikin Test after 1 washing cycle according to section 8.1.3	8.6 % Predicted 2 <sup>rd</sup> and 3 <sup>th</sup> burn injury	Body burn prediction of < 50 of the surface area covered by sensors (hands and feet are excluded)	PASS	2014EP0152

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

2014EP0152

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.





















## **TEST CERTIFICATE**

14EP0153

### AITEX declares that the articles:

### FABRIC CODE: VU25NAT340 FOR UBIZWELD 1 / UBIZWELD5

Woven fabric, twill 3/1, 100% cotton, 340 g/m2-10 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

### 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 574,59 N Weft 337,47N	223 N	PASS	2014EP0153
Clause 7.2	Tear Resistance - ASTM D1424	Warp 29,44 N Weft 23,96 N	22 N	PASS	2014EP0153
Clause 7.3	Seam Sippage - ASTM D 434	Warp 223,09 N Weft 239,49N	223 N	PASS	2014EP0153
Clause 7,4.1	Colour fastness to laundering - AATCC TM61	Change in color: 4-5 Staining: 4	Class 3	PASS	2014EP0153
Clause 7,5	Dimensional Change after 5 washing cycles - AATCC TM135 3IV Aiii	Warp 0.0% Web -1.6%	± 3% in both directions	PASS	2014EP0153
Clause 7,6	Flammability as received ASTM 06413	No met and drip Afterfame 0 s Char length warp 48 mm Char length weft 51 mm	No melt and drip Afterflame < 2s Chart length ≤ 152 mm	PASS	2014EP0153
	Flammability after 25 washing cycles AATCC TM135 3N Ari - ASTM D6413	No melt and drip. Afterfame 0 s Char length warp 72 mm Char length welt 66 mm		PASS	2014EP0153
Clause 7.8	Arc Rating ~ ASTM F1958/F1959M	Afterflame < 5s.	Alterflame < 5s.	PASS	2014EP0193
		Arc rating (ATPV) = 11,0 callon <sup>2</sup>	-	Hiszard category risk 2 NFPA 70E	2014EP0193

The test results above indicated are shown in the test

2014EP0153 - 2014EP0193

Issued by AITEX

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Signed by Raquel Muñoz González Manager Innovation Area 26/03/2014















