

# INTERTEK TEST REPORT

3933 US ROUTE 11

**CORTLAND, NEW YORK 13045** 

REPORT NO.: G101511985CRT-001

**RENDERED TO:** 

PORTWEST, LLC 1272 OMEGA PARKWAY SHEPERDSVILLE, KY 40165

## STANDARDS USED:

ASTM F1790 - Standard Test Method for Measuring Cut Resistance of Materials Used in Protective Clothing 2005 Edition

CEN EN 388 - Protective Gloves Against Mechanical Risks 2003 Edition

ASTM D3389 - Standard Test Method for Coated Fabrics Abrasion Resistance (Rotary Platform Abrader) 2005 Edition

ASTM D3884 - Standard Guide for Abrasion Resistance of Textile Fabrics

(Rotary Platform, Double-Head Method) 2009 Edition

CENELEC EN 420 – Protective Gloves – General Requirements and Test Methods 2003 Edition ASTM F1060 - Standard Test Method for Thermal Protective Performance of Materials for Protective Clothing for Hot Surface Contact 2008 Edition

ASTM F1358 - Standard Test Method for Effects of Flame Impingement on Materials Used in Protective Clothing Not Designated Primarily for Flame Resistance 1995 Edition

## **AUTHORIZATION:**

The tests were authorized by Quote Number 500503128, 500516246, 500524406, 500530713 signed by Ray Carney and Robbie Irwin.

### **SPECIMEN DESCRIPTION:**

The tests were performed on specimens identified by the client as: UA100GN, UA110WB, UA120BK, UA140BK, UA145Y4, UA146BK, UA150OR, UA210GR, UA220RE, UA300NA, UA310GR, UA320BK, UA330YE, UA340YE, UA500RE, UA530RB, UA620GR, UA621BK, UA622G7, UA710BK, UA725YE, UA740BK, and UA790BK. The samples previously described, were received in pristine condition between 01/08/2014 and 05/15/2014 and evaluated between 02/12/2014 and 06/12/2014. The testing was performed at Intertek located in Cortland, NY.

## **CONCLUSION:**

The samples submitted by Portwest House, were evaluated in accordance with ASTM F1790 - Standard Test Method for Measuring Cut Resistance of Materials Used in Protective Clothing 2005 Edition; CEN EN 388 - Protective Gloves Against Mechanical Risks 2003 Edition; ASTM D3389 - Standard Test Method for Coated Fabrics Abrasion Resistance (Rotary Platform Abrader) 2005 Edition; ASTM D3884 - Standard Guide for Abrasion Resistance of Textile Fabrics (Rotary Platform, Double-Head Method) 2009 Edition; CENELEC EN 420 - Protective Gloves - General Requirements and Test Methods 2003 Edition; ASTM F1060 - Standard Test Method for Thermal Protective Performance of Materials for Protective Clothing for Hot Surface Contact 2008 Edition; ASTM F1358 - Standard Test Method for Effects of Flame Impingement on Materials Used in Protective Clothing Not Designated Primarily for Flame Resistance 1995 Edition. Test data sheets are attached as an appendix (71 pages following).

1 . 5 . 1	ANSI 105 Rating					
1 1 1 1 1 1	Cut	Puncture	Dexterity	Abrasion	Conductive	Flame
Test	ASTM			ASTM 3389-05 /	ASTM	ASTM
Standard	F1790-05	EN 388-03	EN 420-03	ASTM3884-09	F1060-08	F1358-95
Style					i saga	
UA100GN	1	4	5	2	n/a	n/a
UA110WB	1	3	5	1	n/a	n/a
UA120BK	1	2	5	0	п/а	n/a
UA140BK	1	3	5	1	n/a	n/a
UA145Y4	2	3	5	1	5	n/a
UA146BK	2	3	5	1	5	n/a
UA150OR	1	2	5	1	n/a	n/a
UA210GR	0	4	4	3	n/a	n/a
UA220RE	2	5	4	4	n/a	n/a
UA300NA	1	2	5	3	n/a	n/a
UA310GR	0	2	5	2	n/a	n/a
UA320BK	1	2	5	3	n/a	n/a
UA330YE	1	2	5	0	n/a	n/a
UA340YE	1	2	5	2	n/a	n/a
UA500RE	1	5	4	3	n/a	4
UA530RB	1	5	3	4	n/a	4
UA620GR	1	4	5	2	n/a	n/a
UA621BK	2	4	5	. 3	n/a	n/a
UA622G7	3	5	4	2	n/a	n/a
UA710BK	1	3	4	3	n/a	n/a
UA725YE	2	4	4	3	n/a	n/a
UA740BK	1	3	5	2	n/a	n/a
UA790BK	4	4	5	n/a	n/a	n/a

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#### ASTM F1790-2005

PRODUCT DESCRIPTION: Glove Palm - Style UA300NA

BLADE DESIGNATION: GRU-GRU TXTL BLD BLADE LOT ID: 8549-183-2013-570735-001001

CALIBRATION: (cut length for 1.57mm ± 0.05mm (0.062in ± 0.002in) thick Neoprene with 500 gm load):

(For Calibration - Blade travel distance between 10mm & 15mm)

Before Sample Testing (A): 13.14 mm

CB = [A+B)/2]: 13.46 mm

After Sample Testing (B): 13.78 mm

Normalized Correction Factor (12.7/CB): 0.94

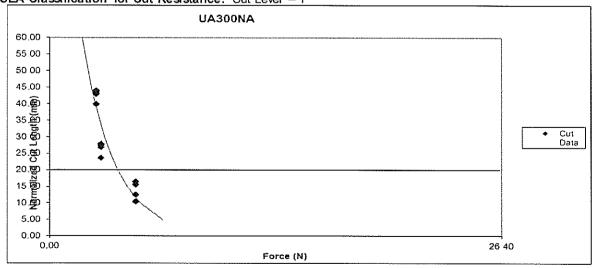
Date: October 28, 2014

Column	1	2	3
Reading Number	Force (N)	Cut Length (mm)	Normalized Cut Length (mm)
1	5.06	10.96	10.30
2	5.06	11.04	10.38
3	5.06	13.29	12.49
4	5.06	16.60	15.60
5	5.06	17.45	16.40
6	3.03	25.14	23.63
7	3.03	28.55	26.84
8	3.03	29.16	27.41
9	3.03	29.40	27.64
10	3.03	29.57	27.80
11	2.73	42.34	39.80
12	2.73	45.67	42.93
13	2.73	46.13	43.36
14	2.73	46.59	43.79
15	2.73	46.69	43.89

Normalized Reference Load (RL): 3.99 N (407 g)

Corrected Load: 1,031 R-Squared: 0.8724

ANSI/ISEA Classification for Cut Resistance: Cut Level - 1



#### CEN EN 388-2003

PRODUCT DESCRIPTION: Glove Palm - UA300NA (blue coated)

**CONDITIONING:** In accordance with EN 388:2003; section 5.3, at a temperature  $23^{\circ}\text{C} \pm 2^{\circ}\text{C}$  and a relative humidity of  $50\% \pm 5\%$  for at least 24 hours. Per EN 388:2003; sec. 5.4: Test performed in a different environment shall be started within 5 minutes after removal from conditioning.

Specimen No.	Puncture No.	Force to Puncture (N)
	1	24.8
1	2	30.0
	3	34.4
	1	32.7
2	2	34.5
	3	34.2
	1	34.4
3	2	35.6
	3	41.6
	1	38.0
4	2	32.7
	3	41.9
Average		34.6

ANSI/ISEA 105-2011 Classification for Puncture Resistance (Table 2): 2

#### CEN EN 420-2003

PRODUCT DESCRIPTION: Whole Glove - UA300NA

Glove Size	e: 8M			Pin Diameter (mm)		
Able To Pick Up Pin?	11	9.5	8	6.5	5	Level
Sample 1	Yes	Yes	Yes	Yes	Yes	5
Sample 2	Yes	Yes	Yes	Yes	Yes	5

Glove Size:	Large			Pin Diameter (mm	)	
Able To Pick Up Pin?	11	9.5	8	6.5	5	Level
Sample 1	Yes	Yes	Yes	Yes	Yes	5
Sample 2	Yes	Yes	Yes	Yes	Yes	5

#### ASTM D 3389-2005/ASTM D 3884-2009

PRODUCT DESCRIPTION: UA300NA (Blue) STANDARD: ASTM D 3389-05

THICKNESS: 1.36 mm

S: 1.36 mm		WHEEL LOAD: 500 grams			
Abrasion Cycles: (jus		ole abraded through it; per ANSI 10 ation minimum reached.	05-2011; 5.1.3)		
Specimen 1	1100*	Specimen 4	1100*		
Specimen 2	1100*	Specimen 5	1025*		
Specimen 3	1150*	AVERAGE	1105		

Notes: \* Small pit holes

ANSI/ISEA 105-2011 Classification for Abrasion Resistance (Table 3): 3