

# INTERTEK TEST REPORT

3933 US ROUTE 11

**CORTLAND, NEW YORK 13045** 

REPORT NO.: G101667923CRT-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

#### **AUTHORIZATION:**

The tests were authorized by Quote Number 500530725 signed by Robbie Irwin.

# **SPECIMEN DESCRIPTION:**

The tests were performed on specimens identified by the client as: UA352 (UA350) Grey / Black, glove. The samples previously described, were received in pristine condition 05/23/2014 and evaluated between 06/3/2014 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. Test data sheets are attached as an appendix (3 pages following).

		ANSI 105	Rating	
	Cut	Puncture	Dexterity	Abrasion
Test Standard	ASTM F 1790-05	EN 388-03	EN 420-03	ASTM 3389-05 / ASTM 3884-09
Style	100			
UA352	1	2	5	1

Report Prepared by:

Report Approved by:

Rof Simmondo

Jill Kirby Technician I

Performance Group

Rob Simmonds

Engineer

Performance Group

## APPENDIX ASTM F1790-2005

PRODUCT DESCRIPTION: Glove Palm - Style UA352 (black coated grey textile) (UA350)

BLADE DESIGNATION: GRU-GRU TXTL BLD

BLADE LOT ID: 3874-105-2014-590024-001001

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): 14.92 mm

CB = [A+B)/2]: 14.90 mm

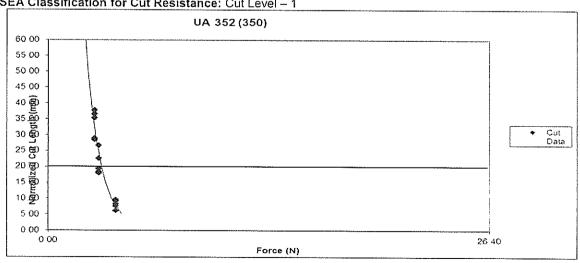
After Sample Testing (B): 14.88 mm Normalized Correction Factor (12.7/CB): 0.86

Column	1	2	3
Reading Number	Force (N)	Cut Length (mm)	Normalized Cut Length (mm)
1	4.04	7.28	6.19
2	4.04	9.06	7.70
3	4.04	9.71	8.25
4	4.04	10.79	9,17
5	4.04	11.27	9.58
6	3.03	21.16	17.99
7	3.03	21.58	18.34
8	3.03	22.77	19.35
9	3.03	26.55	22.57
10	3.03	31.34	26.64
11	2.78	33,47	28.45
12	2.78	34.05	28,94
13	2.78	41.58	35.34
14	2.78	42.98	36.53
15	2.78	44.31	37.66

Normalized Reference Load (RL): 3.18N (325 g)

Corrected Load: 1.031 R-Squared: 0.926

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



#### CEN EN 388-2003

PRODUCT DESCRIPTION: Glove Palm - UA352 (black coated grey textile) (UA350)

**CONDITIONING:** In accordance with EN 388:2003; section 5.3, at a temperature 23°C  $\pm$  2°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	30.4		
1	2	29.1		
	3	34.6		
	1	36.6		
2	2	32.7		
	3	36.8		
	1	30.1		
3	2	34.4		
	3	41.6		
4	1	39.0		
	2	36.1		
	3	36.0		
Average	100 PHE 02 (2009) (40 pt.)	34.8		

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

#### CEN EN 420-2003

PRODUCT DESCRIPTION: Whole Glove - UA352 (black coated grey textile) (UA350)

Glove Siz	e: X-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
Sample 3	Yes	Yes	Yes	Yes	Yes	5

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

PRODUCT DESCRIPTION: UA352 (black coated grey textile) (UA350)

STANDARD: ASTM D 3389-05

THICKNESS: 6.00mm

WHEEL LOAD: 500 grams

Abrasion Cycles: (jus	t before coating has Or, desired clas	ded through it; per ANSI nimum reached.	105-2011; 5.1.3
Specimen 1	450*	Specimen 4	275**
Specimen 2	300**	Specimen 5	575*
Specimen 3	300*	AVERAGE	380

## Notes:

ANSI/ISEA 105-2011 Classification for Abrasion Resistance (Table 3): 1

<sup>\*</sup> Small Tear hole

<sup>\*\*</sup> Ribbed area of the glove (wrist/palm)