



Black Rib
Knit Fabric

Cut Resistance
Performance
Level: **A5**

2996 rating force (gf)

Black Garment
Jersey Fabric
(and upper back)

Cut Resistance
Performance
Level: **A4**

1555 rating force (gf)

Red Garment
Jersey Fabric

Cut Resistance
Performance
Level: **A5**

3406 rating force (gf)

Black Garment
Interlock

Cut Resistance
Performance
Level: **A6**

3182 rating force (gf)

Black Rib
Knit Fabric

Cut Resistance
Performance
Level: **A5**

2996 rating force (gf)

Manufacturer	WWP	Test #	A0805-19
Product Name	RED Garment Jersey Fabric		
Product Type	P145SP-4CM-RB		
Test Date	4/1/2019	Test Lab/Facility	WPP R&D Laboratory
Temperature	72	Humidity	45%
		Operator	KR

Average Rating Force (gf)

3406

1 Samples Tested

ASTM F2992-15
TDM-100

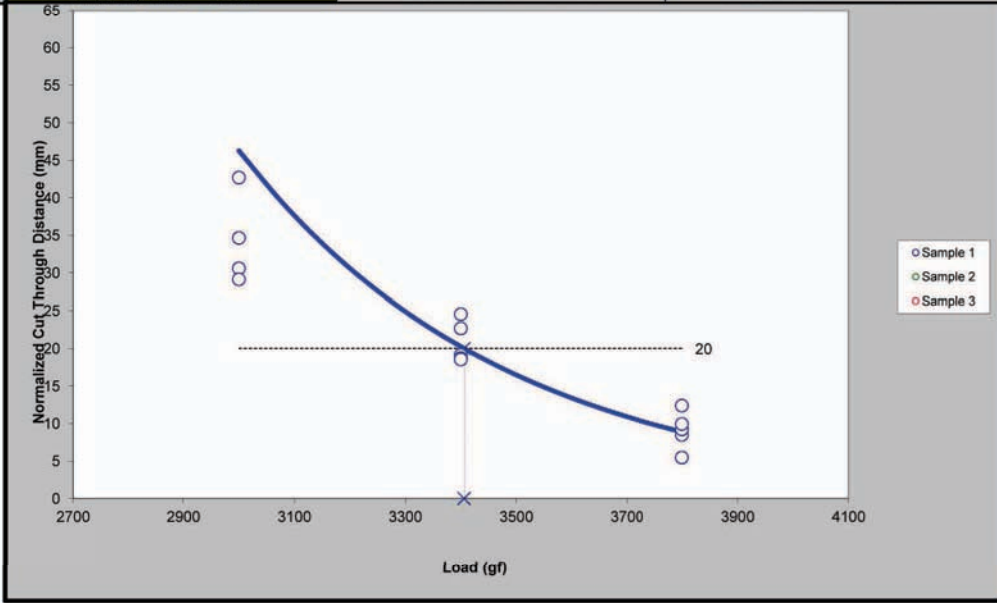
Cut Resistance Performance Level

A6

ANSI/ISEA 105-2016
Section 5.1.1

	Sample 1	Sample 2 <input type="checkbox"/> Include	Sample 3 <input type="checkbox"/> Include
Rating Force (gf)	3406		
Load (gf)			
Norm. Distance (mm)			
No Cut			
Calibration Cut (before)			
1	500	23.59	34.66
2	3000	40.58	42.71
3	3000	50.00	30.60
4	3000	35.82	29.14
5	3000	34.11	42.71
6	3000	50.00	19.16
7	3400	22.43	18.72
8	3400	21.92	22.69
9	3400	26.56	24.57
10	3400	28.76	18.55
11	3400	21.72	12.39
12	3800	14.51	8.49
13	3800	9.94	9.22
14	3800	10.80	9.94
15	3800	11.64	5.47
Calibration Cut (after)	500	23.24	
Sharpness Correction		0.85	
Reference Distance		20.00 mm	
Rating Force		3406.28 gf	
95% Confidence Interval		220.26 gf	
Standard Deviation		101.95 gf	
R-Squared		0.93	
Correction Factor		0.03	
Optional Sample Properties			
Basis Weight		g/sq.m.	
Thickness		mm	
Sample Weight		2.000 2" X4"	
Oz. per Sq. Yard		FALSE	

NO COPPER USED



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The above results were obtained using the standards set forth by the American Society for Testing and Materials (ASTM) under the fixed designation ASTM F2992-15. This test was performed on a properly calibrated TDM-100 machine using all the methods and materials as stated within the ASTM standard F2992-15.

Cut Resistance Performance Calculator, 2.0b1

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References: [1] ANSI/ISEA 105, American National Standard for Hand Protection Selection Criteria, 2016, ISEA-The Safety Equipment Association: Arlington, VA. [2] ASTM Standard F 2992/F 2992M-15, Standard Test Method for Measuring Cut Resistance of Materials Used in Protective Clothing, 2015 ASTM International: West Conshohocken, PA. [3] Derr, J. and S. Beder-Miller, CALIB.MAC, 1987, Minitab, Inc. [4] Neter, J., et al., Applied Linear Statistical Models, 1990: Irwin Homewood, IL. [5] Schme, J. and G.J. Hahn, A Simple Method for Regression Analysis with Censored Data, Technometrics, 1979, 21(4): p. 417-432.

Manufacturer	WPP	Test #	A0331-18
Product Name	SW1 BLACK GARMENT INTERLOCK		
Product Type	Black Interlock Knit Garment Panel		
Test Date	1/16/2018	Test Lab/Facility	WPP R&D Laboratory
Temperature	72	Humidity	45%
		Operator	KR

Average Rating Force (gf)

3182

1 Samples Tested

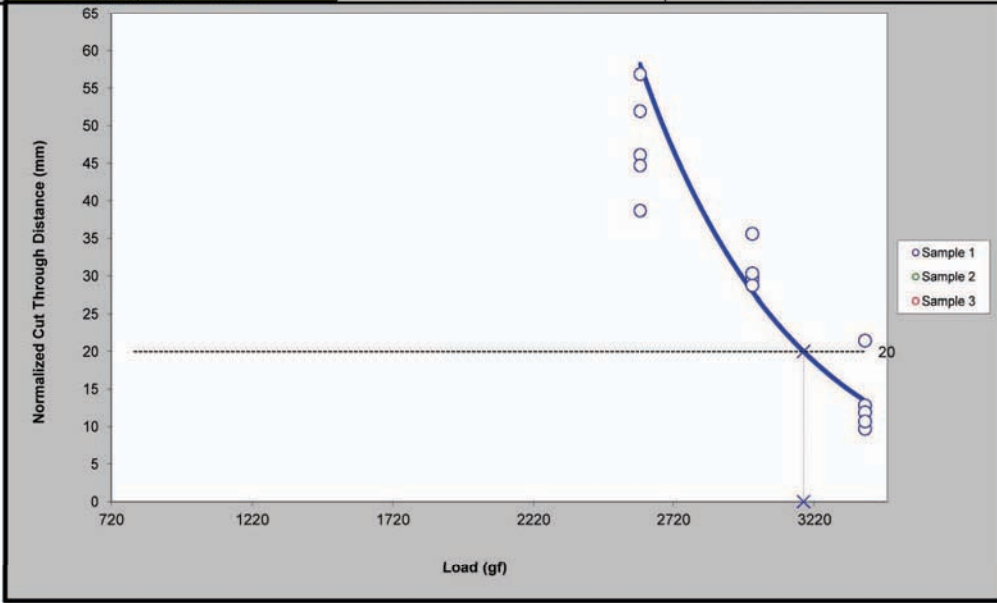
ASTM F2992-15
TDM-100

Cut Resistance Performance Level

A6

ANSI/ISEA 105-2016
Section 5.1.1

	Sample 1	Sample 2 <input type="checkbox"/> Include	Sample 3 <input type="checkbox"/> Include
Rating Force (gf)	3182		
Load (gf)			
Distance (mm)			
Norm. Distance (mm)			
No Cut			
Sample Cuts			
Calibration Cut (before)	500 17.54	500 17.54	500 17.54
1	2600 34.02 38.70	2600 34.02 38.70	2600 34.02 38.70
2	2600 50.00 56.88 *	2600 50.00 56.88 *	2600 50.00 56.88 *
3	2600 45.66 51.95	2600 45.66 51.95	2600 45.66 51.95
4	2600 40.54 46.12	2600 40.54 46.12	2600 40.54 46.12
5	2600 39.29 44.70	2600 39.29 44.70	2600 39.29 44.70
6	3000 26.13 29.73	3000 26.13 29.73	3000 26.13 29.73
7	3000 31.29 35.60	3000 31.29 35.60	3000 31.29 35.60
8	3000 25.97 29.54	3000 25.97 29.54	3000 25.97 29.54
9	3000 25.25 28.73	3000 25.25 28.73	3000 25.25 28.73
10	3000 26.66 30.33	3000 26.66 30.33	3000 26.66 30.33
11	3400 11.28 12.83	3400 11.28 12.83	3400 11.28 12.83
12	3400 8.54 9.72	3400 8.54 9.72	3400 8.54 9.72
13	3400 10.47 11.91	3400 10.47 11.91	3400 10.47 11.91
14	3400 18.85 21.44	3400 18.85 21.44	3400 18.85 21.44
15	3400 9.41 10.71	3400 9.41 10.71	3400 9.41 10.71
Calibration Cut (after)	500 17.62	500 17.62	500 17.62
Results			
Sharpness Correction	1.14	1.14	1.14
Reference Distance	20.00 mm	20.00 mm	20.00 mm
Rating Force	3181.81 gf	3181.81 gf	3181.81 gf
95% Confidence Interval	280.37 gf	280.37 gf	280.37 gf
Standard Deviation	129.78 gf	129.78 gf	129.78 gf
R-Squared	0.89	0.89	0.89
Correction Factor	0.05	0.05	0.05
Optional Sample Properties			
Basis Weight	1007.5 g/sq.m.	1007.5 g/sq.m.	1007.5 g/sq.m.
Thickness	1.1 mm	1.1 mm	1.1 mm
Sample Weight	5.200 2" X4"	5.200 2" X4"	5.200 2" X4"
Oz. per Sq. Yard	FALSE	FALSE	FALSE



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Cut Resistance Performance Calculator, 2.0b1

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References: [1] ANSI/ISEA 105, American National Standard for Hand Protection Selection Criteria, 2016, ISEA-The Safety Equipment Association: Arlington, VA. [2] ASTM Standard F 2992/F 2992M-15, Standard Test Method for Measuring Cut Resistance of Materials Used in Protective Clothing, 2015 ASTM International: West Conshohocken, PA. [3] Derr, J. and S. Beder-Miller, CALIB.MAC, 1987, Minitab, Inc. [4] Neter, J., et al., Applied Linear Statistical Models, 1990: Irwin Homewood, IL. [5] Schme, J. and G.J. Hahn, A Simple Method for Regression Analysis with Censored Data, Technometrics, 1979, 21(4): p. 417-432.

Manufacturer	WPP		Test #	A0328-18	
Product Name	SW1-BLACK GARMENT JERSEY				
Product Type	Black Garment Single Jersey Panel				
Test Date	1/12/2018	Test Lab/Facility	WPP R&D Laboratory		
Temperature	72	Humidity	45%	Operator	KR

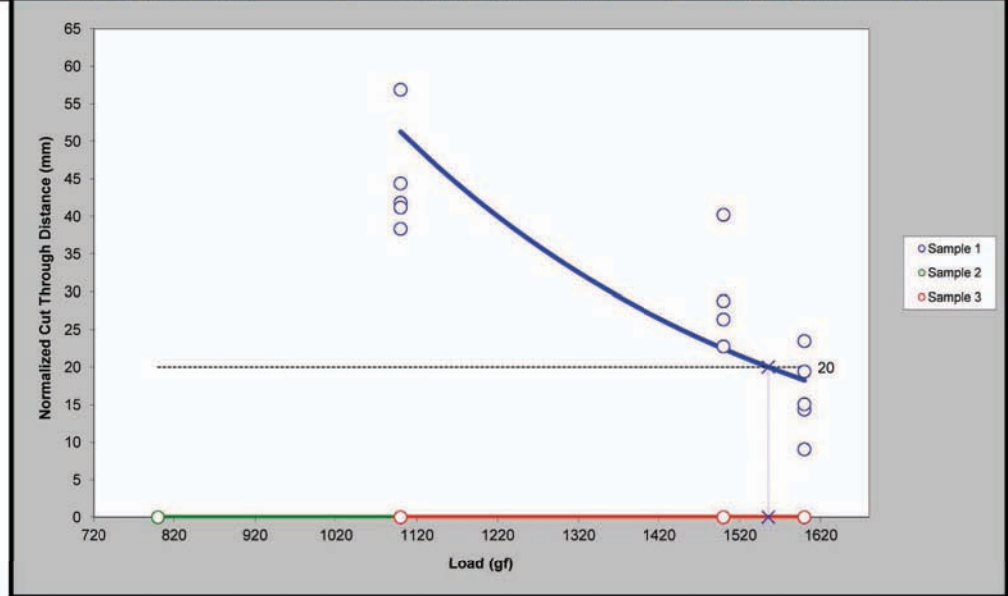
Average Rating Force (gf)

1555
1 Samples Tested
ASTM F2992-15
TDM-100

Cut Resistance Performance Level

A4
ANSI/ISEA 105-2016
Section 5.1.1

		Sample 1				Sample 2 <input checked="" type="checkbox"/> Include				Sample 3 <input checked="" type="checkbox"/> Include				
		Rating Force (gf)				Rating Force (gf)				Rating Force (gf)				
		1555												
		Load (gf)	Distance (mm)	Norm. Distance (mm)	No Cut	Load (gf)	Distance (mm)	Norm. Distance (mm)	No Cut	Load (gf)	Distance (mm)	Norm. Distance (mm)	No Cut	
Calibration Cut (before)		500	17.54			500				500				
Sample Cuts	1	1100	33.70	38.34		1100				1100				
	2	1100	36.77	41.83		1100				1100				
	3	1100	36.19	41.17		1100				1100				
	4	1100	50.00	56.88		1100				1100				
	5	1100	39.02	44.39		1100				1100				
	6	1500	23.16	26.35		1500				1500				
	7	1500	20.00	22.75		1500				1500				
	8	1500	20.00	22.75		1500				1500				
	9	1500	25.29	28.77		1500				1500				
	10	1500	35.35	40.22		1500				1500				
	11	1600	12.60	14.33		1600				1600				
	12	1600	13.25	15.07		800				1600				
	13	1600	17.06	19.41		1600				1600				
	14	1600	7.96	9.06		1600				1600				
	15	1600	20.63	23.47		1600				1600				
Calibration Cut (after)		500	17.62			500				500				
Results	Sharpness Correction			1.14		Sharpness Correction			1.00		Sharpness Correction			1.00
	Reference Distance			20.00 mm		Reference Distance			20.00 mm		Reference Distance			20.00 mm
	Rating Force			1555.47 gf		Rating Force			gf		Rating Force			gf
	95% Confidence Interval			359.56 gf		95% Confidence Interval			gf		95% Confidence Interval			gf
	Standard Deviation			166.43 gf		Standard Deviation			gf		Standard Deviation			gf
	R-Squared			0.68		R-Squared					R-Squared			
Correction Factor			0.17		Correction Factor					Correction Factor				
Optional Sample Properties	Basis Weight			620.0 g/sq.m.		Basis Weight			0.0 g/sq.m.		Basis Weight			0.0 g/sq.m.
	Thickness			1.1 mm		Thickness			mm		Thickness			mm
	Sample Weight			3.200 2" X4"		Sample Weight			2" x 4"		Sample Weight			2" x 4"
	Oz. per Sq. Yard			FALSE		Oz. per Sq. Yard			0.000		Oz. per Sq. Yard			0.000



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Cut Resistance Performance Calculator, 2.0b1

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References: [1] ANSI/ISEA 105, American National Standard for Hand Protection Selection Criteria. 2016, ISEA-The Safety Equipment Association: Arlington, VA. [2] ASTM Standard F 2992/F 2992M-15, Standard Test Method for Measuring Cut Resistance of Materials Used in Protective Clothing. 2015 ASTM International: West Conshohocken, PA. [3] Derr, J. and S. Beder-Miller, CALIB.MAC. 1987, Minitab, Inc. [4] Neter, J., et al., Applied Linear Statistical Models, 1990: Irwin Homewood, IL. [5] Schme, J. and G.J. Hahn, A Simple Method for Regression Analysis with Censored Data. Technometrics, 1979. 21(4): p. 417-432.

Manufacturer	WWP		Test #	A0561-18	
Product Name	SW1 Rib Knit Fabric				
Product Type	Forearm				
Test Date	8/6/2018	Test Lab/Facility	WPP R&D Laboratory		
Temperature	72	Humidity	45%	Operator	KR

Average Rating Force (gf)

2996

1 Samples Tested

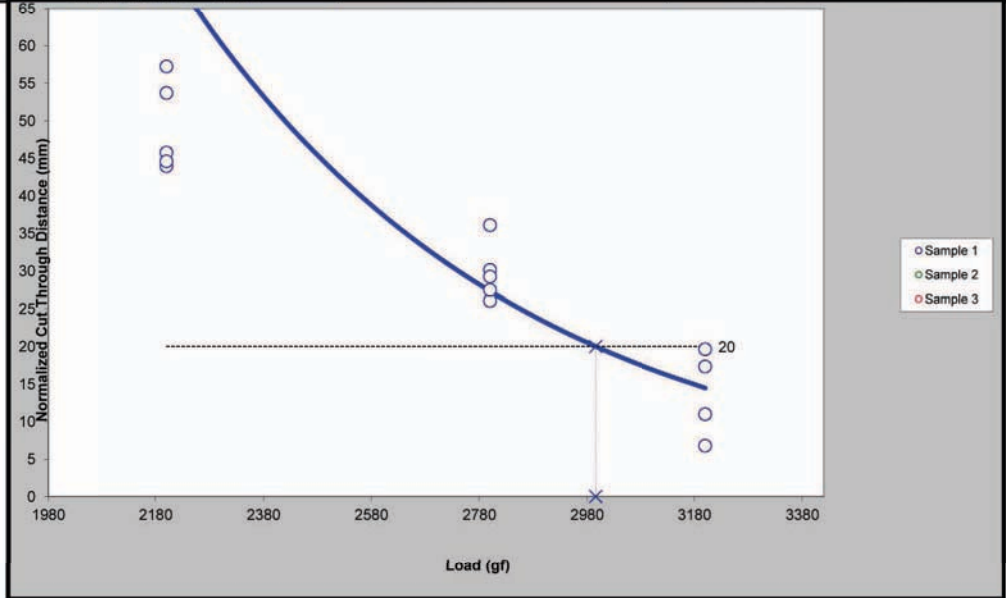
ASTM F2992-15
TDM-100

Cut Resistance Performance Level

A5

ANSI/ISEA 105-2016
Section 5.1.1

	Sample 1	Sample 2 <input type="checkbox"/> Include	Sample 3 <input type="checkbox"/> Include
	Rating Force (gf)	Rating Force (gf)	Rating Force (gf)
	2996		
	Load (gf)	Load (gf)	Load (gf)
	Norm. Distance (mm)	Norm. Distance (mm)	Norm. Distance (mm)
	No Cut	No Cut	No Cut
<i>Calibration Cut (before)</i>	500 16.03	500 16.03	500 16.03
Sample Cuts	1 2200 38.40 43.96	2200 38.40 43.96	2200 38.40 43.96
	2 2200 46.91 53.70	2200 46.91 53.70	2200 46.91 53.70
	3 2200 50.00 57.24	2200 50.00 57.24	2200 50.00 57.24
	4 2200 39.97 45.76	2200 39.97 45.76	2200 39.97 45.76
	5 2200 38.96 44.60	2200 38.96 44.60	2200 38.96 44.60
	6 2800 31.52 36.08	2800 31.52 36.08	2800 31.52 36.08
	7 2800 22.77 26.07	2800 22.77 26.07	2800 22.77 26.07
	8 2800 24.00 27.48	2800 24.00 27.48	2800 24.00 27.48
	9 2800 26.33 30.14	2800 26.33 30.14	2800 26.33 30.14
	10 2800 25.54 29.24	2800 25.54 29.24	2800 25.54 29.24
	11 3200 5.92 6.78	3200 5.92 6.78	3200 5.92 6.78
	12 3200 17.15 19.63	3200 17.15 19.63	3200 17.15 19.63
	13 3200 9.59 10.98	3200 9.59 10.98	3200 9.59 10.98
	14 3200 17.15 19.63	3200 17.15 19.63	3200 17.15 19.63
	15 3200 15.15 17.34	3200 15.15 17.34	3200 15.15 17.34
<i>Calibration Cut (after)</i>	500 18.91	500 18.91	500 18.91
	Sharpness Correction 1.14	Sharpness Correction 1.14	Sharpness Correction 1.14
	Reference Distance 20.00 mm	Reference Distance 20.00 mm	Reference Distance 20.00 mm
	Rating Force 2996.21 gf	Rating Force 2996.21 gf	Rating Force 2996.21 gf
	95% Confidence Interval 436.11 gf	95% Confidence Interval 436.11 gf	95% Confidence Interval 436.11 gf
	Standard Deviation 201.87 gf	Standard Deviation 201.87 gf	Standard Deviation 201.87 gf
	R-Squared 0.84	R-Squared 0.84	R-Squared 0.84
	Correction Factor 0.07	Correction Factor 0.07	Correction Factor 0.07
Optional Sample Properties	Basis Weight 910.6 g/sq.m.	Basis Weight 910.6 g/sq.m.	Basis Weight 910.6 g/sq.m.
	Thickness mm	Thickness mm	Thickness mm
	Sample Weight 4.700 2" X4"	Sample Weight 4.700 2" X4"	Sample Weight 4.700 2" X4"
	Oz. per Sq. Yard FALSE	Oz. per Sq. Yard FALSE	Oz. per Sq. Yard FALSE



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Cut Resistance Performance Calculator, 2.0b1

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CHAPS-1-BKL

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PRODUCT DETAILS

Features

ATA® / Composite Fibers / Knee Length Chaps / Leg Straps
Reinforced Lap & Groin Area / Adjustable Buckle Belt
Made with ATA® Technology / Made in the USA

Benefits

ANSI Cut Level A6
Increased Protection in High Wear Area of Thighs
High Level Abrasion Resistance / Machine Washable
Darker Color Hides Dirt & Soiling / Tough & Long-lasting
Light Weight & Comfortable

Attributes

Cut Resistant / ATA® / Composite Fibers
Color - Black / Case Pack - 20 EA
Sizes - One Size Fits Most



ANSI Level - A6

Your Safety Is In Our Hands!

RELATED STYLES

CHAPS-36

APPLICATIONS

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Glass Handling / Automotive
Paper Manufacturing
Appliance Manufacturing
Plastics and Molding
Pulp & Paper

