

ISEA Cut Resistance Performance Calculator

Manufacturer	Summit Glove	Test #	SM216-14
Product Name	CLW510		
Product Type	10g White High Performance Fiber w/ Steel		
Test Date	7/2/2014	Test Lab/Facility	R&D Laboratory
Temperature	72	Humidity	45%
		Operator	MP

Average Rating Force
(gf)

4414

1 Samples Tested

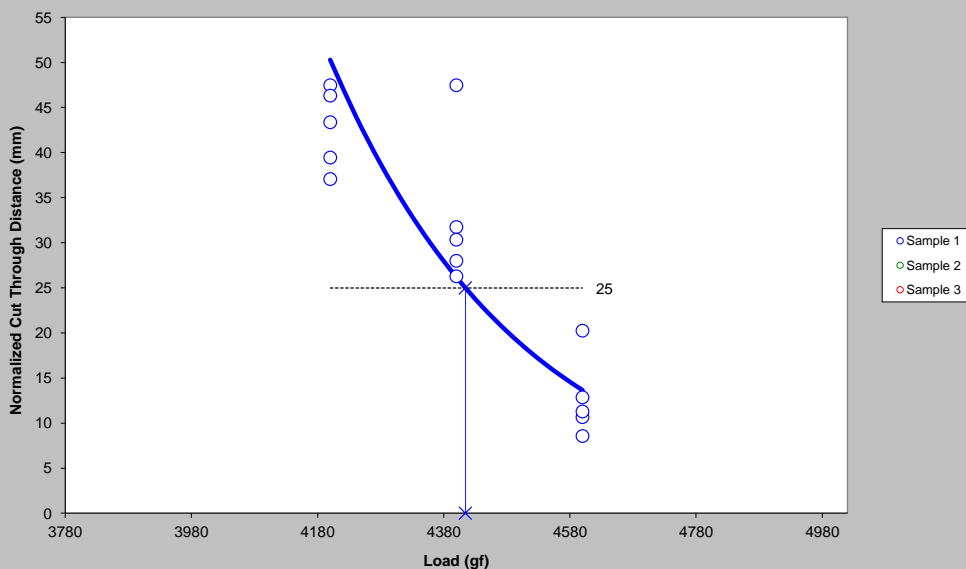
ASTM F1790-97
CPPT

Cut Resistance
Performance Level

5

ANSI/ISEA 105-2011
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)			
4414											
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)											
400	26.49	43.37						400			
1	4200	45.67	43.37								
2	4200	50.00	47.48 *								
3	4200	41.56	39.46								
4	4200	39.04	37.07								
5	4200	48.78	46.32								
6	4400	27.68	26.28								
7	4400	29.50	28.01								
8	4400	50.00	47.48 *								
9	4400	33.45	31.76								
10	4400	31.97	30.36								
11	4600	11.24	10.67								
12	4600	13.56	12.88								
13	4600	21.34	20.26								
14	4600	11.90	11.30								
15	4600	9.02	8.56								
Calibration Cut (after)											
400	27.01							400			
Results											
Sharpness Correction				Sharpness Correction				Sharpness Correction			
Reference Distance				Reference Distance				Reference Distance			
Rating Force				Rating Force				Rating Force			
95% Confidence Interval				95% Confidence Interval				95% Confidence Interval			
Standard Deviation				Standard Deviation				Standard Deviation			
R-Squared				R-Squared				R-Squared			
Correction Factor				Correction Factor				Correction Factor			
Optional Sample Properties											
Basis Weight				Basis Weight				Basis Weight			
Thickness				Thickness				Thickness			



Summit Glove certifies that the following test was performed in accordance with the specification test requirements and that the reported results are true and valid. This report is limited and related only to the particular instrument, material or other subject to which it refers. These Test results can not be compared to results obtained using different methods or under different conditions. No representation is made that similar articles will be of like quality.

The above results were obtained using the standards set forth by the American Society for Testing and Materials (ASTM) under the fixed designation ASTM F 1790. This test was performed on a properly calibrated Straight Arm CPPT machine using all the methods and materials as stated within the ASTM standard -

Cut Resistance Performance Calculator, Version 1.1
ISEA CR Template v1 current.xlt

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References: [1] ANSI/ISEA 105, American National Standard for Hand Protection Selection Criteria. 2011, ISEA-The Safety Equipment Association: Arlington, VA. [2] ASTM Standard F 1790, Standard Test Method for Measuring Cut Resistance of Materials Used in Protective Clothing. 1997, 2005 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] Schmee, J. and G.J. Hahn, A Simple Method for Regression Analysis with Censored Data. Technometrics, 1979. 21(4): p. 417-432.