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	LEVEL		WEIGHT (GRAMS)	APPLICATIONS	EXAMPLES	
CUT HAZARD	Light	ANSI A1 CUT	≥ 200	Maintenance, Material Handling, Small Parts Assembly, Warehouse	TUF-COR™ TOUCH #6992	
	Light - Medium	A2 CUT	≥ 500	Assembly, Appliance Manufacturing, Auto Repair, Construction/Remodeling, Mainte- nance, Material Handling, Metal Fabrication	BLACK LABEL™ Red #3705	
		ANSI A3 CUT	≥ 1000	Assembly, Appliance Manufacturing, Auto Repair, Construction/Remodeling, Mainte- nance, Material Handling, Metal Fabrication	CALIBERTM TOUCH #3716T	
	Med - High	ANSI A4 CUT	≥ 1500	Aerospace, Appliance Manufacturing, Automotive, Construction/Remodeling, Glass Handling, HVAC, Machining, Metal Fabrication, Stamping, Paper/Pulp Production	MACHINIST™ #3734	
		A5 CUT	≥ 2200	Aerospace, Appliance Manufacturing, Automotive, Bottling/Canning, Construction/Re- modeling, Flooring Installation, Glass Handling, HVAC, Machining, Metal Fabrication, Stamping, Paper/Pulp Production	SABRE™ #3350	
	High	AA6 CUT	≥ 3000	All of the Above Plus Meat Processing, Recycling, Window Manufacturing	POWER-COR™ ULTRA #3051	
	High-Heavy	A7 CUT	≥ 4000	Automotive Demolition, High-Grip Applications, Sheet Metal Handling, Welding	COMMANDER™ FOAM #3732F	
	Heavy	ANSI A8 CUT	≥ 5000	Automotive Demolition, Heavy Equipment Maintenance, High-Grip Applications, Oil & Gas, Pulp & Saw Mills, Sheet Metal Handling, Welding	LOAD	
	Extreme	ANSI A9 CUT	≥ 6000	Automotive Demolition, Heavy Equipment Maintenance, High-Grip Applications, Oil & Gas, Pulp & Saw Mills, Sheet Metal Handling, Welding	BLADE TRAVEL	

Cut Resistance (ANSI/ISEA 105): To determine cut resistance, a test sample is cut by a straight-edge blade, under load, that moves along a straight path. The sample is cut five times, each under three different loads, and the data is used to determine the required load to cut through the test sample at a distance of 2mm (0.8 inches). Test scores are expressed in Levels and in the number of grams (load). The higher the number of grams, the more cut resistant the material.

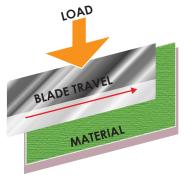


Fig 1. Testing for Cut Resistance with a Blade Under Load

ANSI/ISEA CLASSIFICATIONS ABRASION RESISTANCE

LEVEL		ABRASION RESISTANCE (CYCLES)	APPLICATIONS	EXAMPLES					
Light	ANSI 1 ABR	109-499	Paper/Cardboard Cuts, Light Material Handling, Parts Assem- bly	CONTACT™ Foam Latex #3991					
Light-Medium	ANSI 2 ABR	500-999	Paper/Cardboard Cuts, Light Material Handling, Parts Assem- bly	COR-GRIP PRO™ Crinkle Latex #3986P					
Medium	ANSI 3 ABR	1,000-2,999	Light Construction, Material Handling, Parts Assembly, Packaging	MACHINIST™ Nitrile Foam #3734					
Medium-Heavy	ANSI 4 ABR	3,000-9,999	Construction, Light Metal Stamping, Light Glass Handling, Manufacturing	COMMANDER™ Foam #3732F					
Heavy	ANSI 5 ABR	10,000-19,999	Construction, Metal Stamping, Food Service, Glass Handling	THRESHOLD™ #3731					
Extreme	ANSI 6 ABR	20,000+	Oil & Gas, Mining, Heavy Duty Construction, Demolition, Manufacturing, Metal Fabrica- tion	COMMANDER™ HV #3732HV					

Abrasion Resistance (ANSI/ISEA 105): Abrasion Resistance is measured as number of rotations on a friction machine before abrasion occurs.



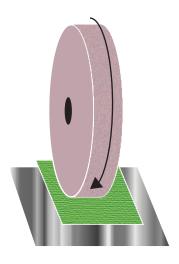


Fig 2. Testing for Abrasion on a Friction Machine

ANSI/ISEA CLASSIFICATIONS PUNCTURE RESISTANCE

LEVEL		PUNCTURE RESISTANCE (NEWTONS)	APPLICATIONS		
Light	ANSI 1 PUNC	10-19	Paper/Cardboard Cuts, Light Material Handling, Parts Assembly	EXAMPLES	5
Light-Medium	ANSI 2 PUNC	20-59	Light Construction, Material Handling, Parts Assembly, Packaging		TACTYLE™ #6670
Medium	ANSI 3 PUNC	60-99	Construction, Light Metal Stamping, Light Glass Handling, Manufacturing		COMMANDER™ #3732
Medium-Heavy	ANSI 4 PUNC	100-149	Construction, Metal Stamping, Glass Handling, Recycling, Injection Molding		MACHINIST™ Sandy Nitrile #3734TPR
Heavy	5 PUNC	150+	Oil & Gas, Mining, Heavy Duty Construction, Demolition, Manufactur- ing, Metal Fabrication		iON™ #3702

Puncture Resistance (ANSI/ISEA 105): Puncture resistance is determined by the max force that it takes, exerted from a probe, to puncture the fabric.

ANSI/ISEA CLASSIFICATIONS

This standard specifically focuses on the back of the hand by measuring the dissipating impact from the knuckles and fingers.

ANSI/ISEA 138 ANSI/ISEA 138



ANSI/ISEA 138



Light

Medium

Heavy

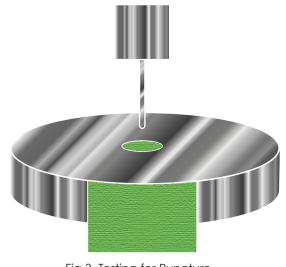


Fig 3. Testing for Puncture Resistance with a Probe

Need help selecting the right glove? Call Us 800-458-8763. You can also Request a Quote or Sample.

