

# BRASS KNUCKLE® GLOVE COMPARISON CHART

SMARTCUT

SMARTFLEX

SMARTSKIN

Brand	SKU	Use/Resistance	Shell/Liner	Shell Color	Gauge	Coat	Coat Color	Grip	Other Characteristics	EN 388				ANSI
										Abrasion	Coup Cut	Tear	Puncture	
SmartShell	BKCR4499	Cut/Impact	UHMWPE	Lime	13	Nitrile	Black	Sandy	TPR Padding	4	5	4	3	A5*
SmartCut	BKCR2403	Cut	HPPE/ Nylon/Synthetic GLF	Salt and Pepper	18	Polyurethane	Black	Flat		3	4	4	1	A2
SmartCut	BKCR3520	Cut	HPPE	Gray	15	Nitrile	Gray	Foam	Thumb Crotch Reinforcement	4	3	4	2	A2
SmartCut	BKCR404	Cut	HDPE	Salt and Pepper	13	Polyurethane	Gray	Flat		4	5	4	4	A3
SmartCut	BKCR4300	Cut	HDPE	Salt and Pepper	13	Latex	Blue	Crinkle		4	5	4	3	A3
SmartCut	BKCR4420	Cut	HDPE	Gray	13	WBPU Coating / Nitrile	Black	Sandy	Double Coat, Environmental Solution	4	5	4	3	A4
SmartCut	BKCR303	Cut	HDPE	Salt and Pepper	13	Polyurethane	Gray	Sandy						A2
SmartFlex	BK401	General Purpose	Nylon	Black	13	Polyurethane	Gray	Flat		4	1	3	1	NT
SmartFlex	BK402	General Purpose	Nylon	White	13	Polyurethane	White	Flat		4	1	3	1	NT
SmartFlex	BK403	General Purpose	Nylon	Black	13	Polyurethane	Black	Flat		4	1	3	1	NT
SmartFlex	BK411	General Purpose	Nylon	White	13	Nitrile	Gray	Flat		4	1	2	1	NT
SmartFlex	BK420	General Purpose	Nylon	Gray	13	Nitrile	Black	Foam		4	1	2	1	NT
SmartFlex	BK504	General Purpose	Nylon	Red	15	Polyurethane	Black	Foam		3	1	2	0	NT
SmartFlex	BK520	General Purpose	Nylon / Spandex	Black	15	Nitrile	Black	Foam		4	1	4	1	NT
SmartFlex	BK529	General Purpose	Nylon / Spandex	Black	15	Nitrile	Black	Foam	Nitrile Dots	4	1	4	1	NT
SmartFlex	BK315	General Purpose	Polyester	Black	13	Latex	Black	Crinkle		3	1	2	0	NT
SmartFlex	BK350	General Purpose	Polyester Knit	Blue	15	Foam Latex	Dark Blue	Sandy		2	1	3	1	NT
SmartFlex	BK360	General Purpose	Napped Acrylic	Black	13	Foam Latex	Black	Foam		2	2	4	1	NT
SmartSkin	BKPVC2BLK-14SFC	Chemical	Cotton	NA	NA	PVC	Black	Sandy	Gauntlet Cuff	4	1	2	1	NT
SmartSkin	BKPVC2BLK-12SFC	Chemical	Cotton	NA	NA	PVC	Black	Sandy	Gauntlet Cuff	4	1	2	1	NT
SmartSkin	BKNITR2	Chemical	Flock	Aqua	NA	PVC	Black	Sandy	Gauntlet Cuff	4	1	3	1	NT

\*in palm NT: Not Tested. Testing not required.

## ABOUT CUT-RESISTANCE LEVELS: ANSI/ISEA 105 VERSUS EN 388

In this catalog you will see two different shield symbols indicating a glove's cut-level rating. Each shield represents the results of testing by the methods of two different major standards.

### U.S. Standard: ANSI/ISEA 105

In the U.S., the standard is ANSI/ISEA 105 (American National Standards Institute), which uses a nine-level scale from A1 to A9 to determine cut scores. (Prior to 2016, this was a 1-5 scale, but it was updated for greater specificity.)

### How material is tested:

ANSI/ISEA 105 uses the ASTM F2992-15 test method and a Tomodynamometer machine, also called the TDM-100. Material is cut by a straight-edge blade, under load, that moves along a straight path for approximately 20 mm. The sample is cut five times each at three different loads, with a new blade for each cut, until cut-through is achieved.

### ANSI/ISEA 105

Cut Score	Weight to Cut Material (in grams)
A1	200-499
A2	500-999
A3	1000-1499
A4	1500-2199
A5	2200-2999
A6	3000-3999
A7	4000-4999
A8	5000-5999
A9	6000+

## EUROPEAN STANDARD: EN 388

The mandatory standard for Europe is EN 388. The rating is a six-character code that combines four digits and two letters.

### EN 388: WHAT THE NUMBERS MEAN

The four digits correspond to four test rating categories (abrasion resistance, blade cut resistance, tear resistance, and puncture resistance) using the ISO 13997 test method, performed using a circular blade under a fixed load as the blade moves back and forth across the test material. The number 4 is the highest rating for abrasion, tear, and puncture resistance, and 5 is the highest for blade cut resistance.

### EN 388



abrasion resistance — 4  
blade cut resistance — 5  
tear resistance — 4  
puncture resistance cut (TDM-100 test) — 4  
impact protection — C

### EN 388: WHAT THE LETTERS MEAN

The first letter measures cut resistance using a second test, the TDM-100, on an A-F scale. The second letter measures results of an impact protection test. The three potential ratings are P=Passed, F=Failed, X=Not Tested. (Gloves that do not offer impact protection will not be subjected to this test.)

