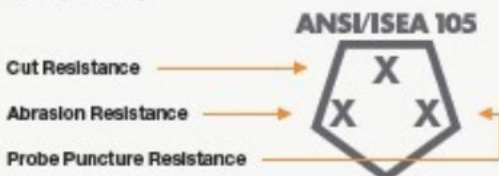


ANSI & ASTM Standards

ANSI / ISEA 105 Icon

Updated pictogram standardizing cut, abrasion, and non-needlestick puncture into a single icon rating



Abrasion Resistance

Level	Level	Level	Level	Level	Level
1	2	3	4	5	6
> 100 Abrasion Revolutions	> 500 Abrasion Revolutions	> 1,000 Abrasion Revolutions	> 3,000 Abrasion Revolutions	> 10,000 Abrasion Revolutions	> 20,000 Abrasion Revolutions
Tested at 500g of force			Tested at 1,000g of force		

Cut Resistance

Level	Level	Level	Level	Level
A1	A2 A3	A4	A5 A6	A7 A8 A9
Nuisance Cut Hazards 200 – 499 grams to cut Paper cuts, parts assembly	Low Cut Hazards 500 – 1,499 grams to cut General purpose, shipping & handling, masonry	Moderate Cut Hazards 1,500 – 2,199 grams to cut Low-gauge metal handling, assembly, installation (plywelling, electrical maintenance, HVAC)	High Cut Hazards 2,200 – 3,999 grams to cut Mid-gauge metal handling, stamped metal handling, recycling & sorting, blade sharpening & handling, well drilling, oil refinery maintenance, glass handling	Extreme Cut Hazards 4,000 – 6,000+ grams to cut High-gauge metal & stamped parts handling, stainless steel manufacturing, butchering, blade maintenance & sharpening (pneumatic blades), industrial pipe fitting, steel cable handling, food processing & butchering, glass pane handling, bottling

Impact Resistance

ANSI / ISEA 138	ANSI / ISEA 138	ANSI / ISEA 138
1	2	3
Low	Moderate	High

Heat Resistance

ANSI 1	ANSI 2	ANSI 3	ANSI 4	ANSI 5
HEAT	HEAT	HEAT	HEAT	HEAT
176°F / 80°C	284°F / 140°C	392°F / 200°C	500°F / 260°C	608°F+ / 320°C+
Each level is the maximum temperature where workers have up to 15 seconds before they receive second-degree burns				

Puncture Resistance - Hypodermic

ASTM F2878 Hypodermic puncture protection

ANSI 1	ANSI 2	ANSI 3	ANSI 4	ANSI 5
NEEDLE	NEEDLE	NEEDLE	NEEDLE	NEEDLE
≥ 2N of Puncture	≥ 4N of Puncture	≥ 6N of Puncture	≥ 8N of Puncture	≥ 10N of Puncture
Needles, fine wood splinters, tiny pieces of glass, barbs on wires, thin gauge wire, construction staples				

Puncture Resistance - Probe

EN 388:2016 Probe puncture protection

Level	Level	Level	Level	Level
1	2	3	4	5
≥ 10N of Puncture	≥ 20N of Puncture	≥ 60N of Puncture	≥ 100N of Puncture	≥ 150 of Puncture
Nails, thick cables, wood splinters, and wires				

These recommendations are of a general nature and are not specific to everyone's needs. Always ensure your selected gloves comply with the mandated safety standard recommended for your application.