

ANSI & ASTM Standards

Cut Resistance



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 (drywalling, 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



Low

Moderate

High

Heat Resistance



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



≥ 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



≥ 10N
of Puncture

≥ 20N
of Puncture

≥ 60N
of Puncture

≥ 100N
of Puncture

≥ 150
of Puncture

Nails, thick cables, wood splinters, and wires

Abrasion Resistance



> 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

About Recommendations

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.