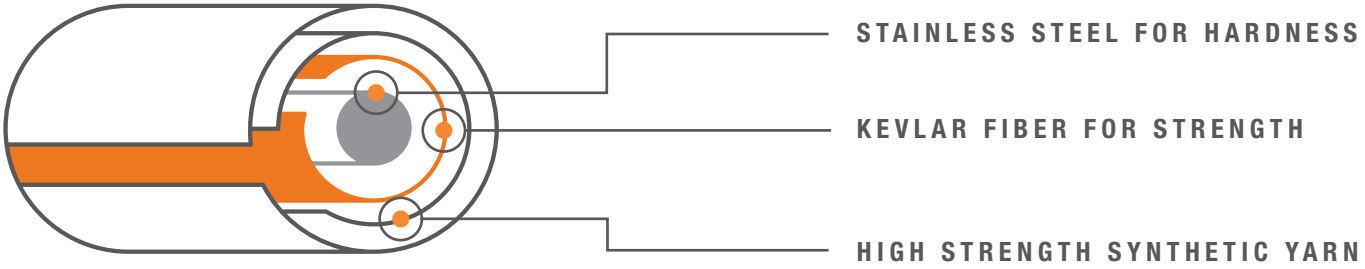
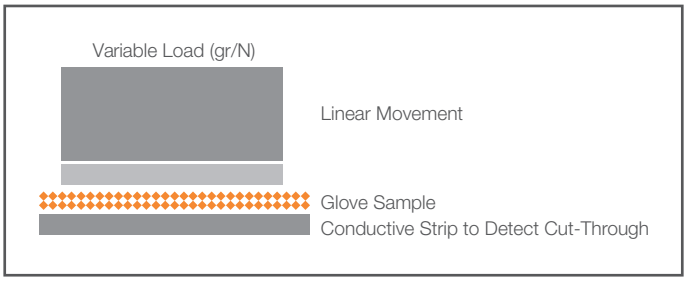
CUT-RESISTANT GLOVES:

ADVANCED COMPOSITE YARN



The secret is in the science. Instead of relying on one strong fiber, today's best cut-resistant gloves are made from yarns engineered to incorporate the benefits of two or more components. For instance, high-strength yarns such as TenActiv™, Kevlar®, and Dyneema® can be combined with elements such as fiberglass and steel to create an engineered yarn with unparalleled cut protection.

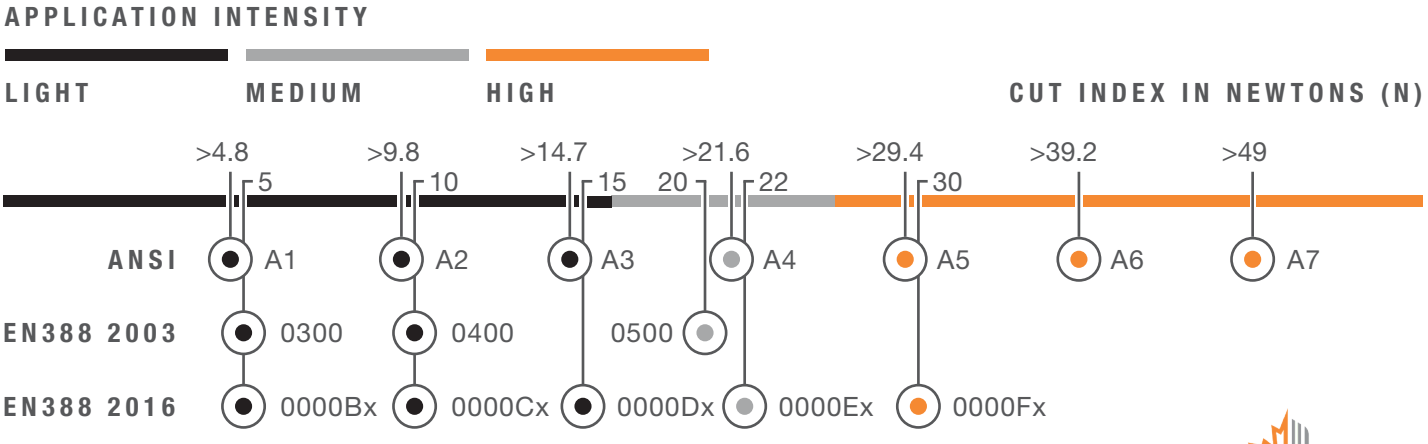
ANSI CUT LEVEL STANDARD



Many of the advances in cut-resistant fibers have been made in the recent past, precipitating the updates that were made to the ANSI/ISEA 105 standard in 2016. The previous standard, released in 2011, didn't properly reflect the cut properties of some of today's more advanced cut-resistant gloves.

Cut resistance is measured by recording the weight in grams required to cut through a material with a 20 mm blade. Previously, there were five levels and tests that could be conducted on either a Cut Protection Performance Tester (CPPT) or a Tomodynamometer Test Machine (TDM). The latest standard has expanded to nine levels to allow for better choices when selecting personal protective equipment (PPE) and standardized testing by requiring testing on a TDM only.

ANSI EN388 CUT INDEX



superiorglove

WHICH ANSI LEVEL DO I CHOOSE?

200-499 GRAMS TO CUT

Light cut hazards:
Material handling, small parts assembly with sharp edges, packaging, warehouse, general purpose, forestry, construction

500-999 GRAMS TO CUT

Light/medium cut hazards:
Material handling, small parts assembly with sharp edges, packaging, warehouse, general purpose, forestry, construction, pulp & paper, automotive assembly

1000-1499 GRAMS TO CUT

Light/medium cut hazards:
Material handling, small parts assembly with sharp edges, packaging, warehouse, general purpose, forestry, construction, pulp & paper, automotive assembly

1500-2199 GRAMS TO CUT

Medium cut hazards:
Appliance manufacturing, bottle and light glass handling, canning, drywalling, electrical, carpet installation, HVAC, pulp & paper, automotive assembly, metal fabrication, metal handling, packaging, warehouse, aerospace, food prep/ processing

2200-2999 GRAMS TO CUT

Medium/heavy cut hazards:
Appliance manufacturing, bottle and light glass handling, canning, drywalling, electrical, carpet installation, HVAC, pulp & paper, automotive assembly, metal fabrication, metal handling, packaging, warehouse, aerospace, food prep/ processing

3000-3999 GRAMS TO CUT

High cut hazards:
Metal stamping, metal recycling, pulp & paper (changing slitter blades), automotive assembly, metal fabrication, sharp metal stampings, glass manufacturing, window manufacturing, recycling plant sorting, HVAC, food prep/processing, meat processing, aerospace

4000-4999 GRAMS TO CUT

High cut hazards:
Metal stamping, metal recycling, pulp & paper (changing slitter blades), automotive assembly, metal fabrication, sharp metal stampings, glass manufacturing, window manufacturing, recycling plant sorting, HVAC, food prep/processing, meat processing, aerospace

5000-5999 GRAMS TO CUT

High cut hazards:
Metal stamping, metal recycling, pulp & paper (changing slitter blades), automotive assembly, metal fabrication, sharp metal stampings, glass manufacturing, window manufacturing, recycling plant sorting, HVAC, food prep/processing, meat processing, aerospace

6000+ GRAMS TO CUT

High cut hazards:
Appliance manufacturing, bottle and light glass handling, canning, drywalling, electrical, carpet installation, HVAC, pulp & paper, automotive assembly, metal fabrication, metal handling, packaging, warehouse, aerospace, food prep/ processing

IN THE UNITED STATES, ANSI IS ESSENTIALLY THE ONLY RATING CONSIDERED

WHICH EN388 LEVEL DO I CHOOSE?

EN388 **A**

2 NEWTONS = 203 GRAMS TO CUT

Light material handling, small parts assembly without sharp edges

EN388 **B**

5 NEWTONS = 509 GRAMS TO CUT

Packaging, warehouse, light duty general purpose

EN388 **C**

10 NEWTONS = 1019 GRAMS TO CUT

Light duty metal handling, metal stamping, HVAC, light duty glass handling, plastics, material handling

EN388 **D**

15 NEWTONS = 1529 GRAMS TO CUT

Light duty metal handling, appliance manufacturing, bottle and light glass handling, canning, drywalling, electrical, carpet installation, HVAC

EN388 **E**

22 NEWTONS = 2243 GRAMS TO CUT

Metal stamping, sheet metal handling, glass handling, automotive assembly

EN388 **F**

30 NEWTONS = 3059 GRAMS TO CUT

Heavy duty metal stamping, metal recycling, food processing, pulp & paper