



RADIANS®

CUT PROTECTION GLOVES

FAST FACTS



A FEW FUN FAST FACTS ABOUT HANDS:



DID YOU KNOW EACH HAND CONTAINS:

- 29 major and minor bones (many people have a few more)
- 29 major joints
- At least 123 named ligaments
- 35 muscles which move the fingers and thumb
 - 17 in the palm of the hand, and
 - 18 in the forearm
- 48 named nerves
- 3 major nerves
- 24 named sensory branches
- 21 named muscular branches
- 30 named arteries and nearly as many smaller named branches
- The bones in your fingers are no stronger than a lead pencil



THE COST OF UNSAFE HANDS:

HERE ARE SOME HAND STATISTICS FROM THE CDC & OSHA:

If all workers, from medical to industrial and everything in between, would just wear gloves, then more than 1 million hospital emergency visits by U.S. workers per year could be avoided (according to the Centers for Disease Control and Prevention).

- Hand Injuries have cost employers over **\$740 MILLION** dollars in the US last year (lost time, settlements, etc).
- Non-compliance of PPE hand protection is among one of the most common OSHA citations to date, costing employers on average **\$6,000** per citation.

OSHA 1910.132(h)(1) requires that protective equipment, including PPE, shall be provided by the employer at no cost to the employees. It's not a one shot deal- as a business owner, you have to be compliant every hour of every day. Safety has to be top of mind, comfort leads to compliance. Don't let your workers become a statistic!

ANSI CUT LEVEL RATINGS

There are many kinds of cut hazards, and each one requires a different level of protection. Use the table below to help determine the cut level rating necessary for your work environment.



LIGHT CUT HAZARDS:

material handling, assembly, maintenance, packaging, warehouse, general purpose, construction

200 - 499 grams



LIGHT/MEDIUM CUT HAZARDS:

material handling, assembly, maintenance, packaging, warehouse, general purpose, construction, metal handling, appliance manufacturing

500 - 999 grams



LIGHT/MEDIUM CUT HAZARDS:

material handling, assembly, maintenance, packaging, warehouse, general purpose, construction, metal handling, appliance manufacturing

1000 - 1499 grams



MEDIUM CUT HAZARDS:

bottle and light glass handling, canning, dry walling, electrical, carpet installation, HVAC, paper production, automotive assembly, metal handling, metal stamping, packaging, warehouse, appliance manufacturing

1500 - 2199 grams



MEDIUM CUT HAZARDS:

bottle and light glass handling, canning, dry walling, electrical, carpet installation, HVAC, paper production, automotive assembly, metal handling, metal stamping, packaging, warehouse, appliance manufacturing

2200 - 2999 grams



MEDIUM/HEAVY CUT HAZARDS:

bottle and light glass handling, canning, dry walling, electrical, carpet installation, HVAC, paper production, automotive assembly, metal handling, metal stamping, packaging, warehouse, appliance manufacturing

3000 - 3999 grams



MEDIUM/HEAVY CUT HAZARDS:

bottle and light glass handling, canning, dry walling, electrical, carpet installation, HVAC, paper production, automotive assembly, metal handling, metal stamping, packaging, warehouse, appliance manufacturing, meat processing

4000 - 4999 grams



HEAVY CUT HAZARDS:

bottle and light glass handling, canning, dry walling, electrical, carpet installation, HVAC, paper production, automotive assembly, metal handling, metal stamping, packaging, warehouse, appliance manufacturing, meat processing

5000 - 5999 grams



HEAVY CUT HAZARDS:

bottle and light glass handling, canning, dry walling, electrical, carpet installation, HVAC, paper production, automotive assembly, metal handling, metal stamping, packaging, warehouse, appliance manufacturing, meat processing

6000+ grams

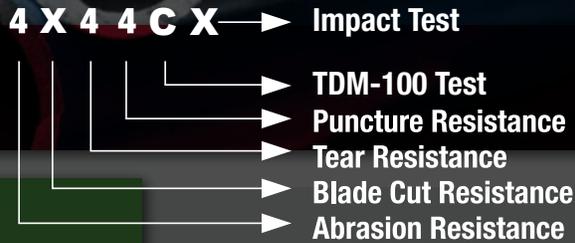


EN388

EN388

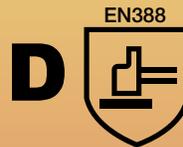


EN388 ratings are also noted on Radians hand protection. EN388 includes more specific information about the resistance to particular types of hazards you may encounter on the job. There are five numbers listed which indicate the level of resistance to puncture, tearing, blade cut and abrasion. Look at the diagram to the left to reference which number corresponds to which hazard.



LIGHT CUT HAZARDS:
Light material handling, small parts assembly without sharp edges

204 - 508 grams/2 - 4.9 newtons



MEDIUM/HEAVY CUT HAZARDS:
Light duty metal handling, appliance manufacturing, bottle and light glass handling, canning, dry walling, electrical, carpet installation, HVAC

1,530 - 2,242 grams/15 - 21 newtons



LIGHT/MEDIUM CUT HAZARDS:
Packaging, warehouse, light duty general purpose

509 - 1,019 grams/5 - 9.9 newtons



MEDIUM/HEAVY CUT HAZARDS:
Metal stamping, sheet metal handling, glass handling, automotive assembly

2,243 - 3,058 grams/22 - 29.9 newtons



MEDIUM CUT HAZARDS:
Light duty metal handling, metal stamping, HVAC, light duty glass handling, plastics, material handling

1,020 - 1,529 grams/10 - 14.9 newtons



HEAVY CUT HAZARDS:
Heavy duty metal stamping, metal recycling, food processing, pulp and paper

3,059+ grams/30+ newtons

GLOVE SHELLS

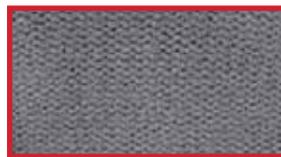
Glove shells are knitted on a flat head knitting machine and are measured by the gauge (ga) of the shell. The gauge of the shell identifies how many needles are used per linear inch on a knitting machine. A 15-gauge shell, for example, is knitted on a machine with 15 needles per linear inch. The smaller the gauge, the thicker the shell. 7 ga is the thickest shell and 18 ga is the thinnest, lightest weight shell.

SHELL DESCRIPTIONS



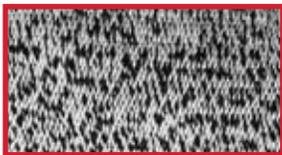
POLYESTER:

- Monofilament Yarn
- Single Fiber, Not Twisted



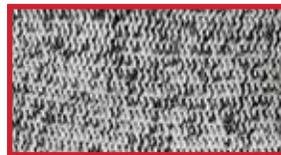
NYLON:

- Man-Made Yarn
- Durable
- Excellent Abrasion Resistant
- Varying Luster



HPPE:

- High Performance Polyethylene
- Same as HDPE or UHMWPE
- Offers Cut Levels A2-A3



HPPE WITH FIBERGLASS &/OR STAINLESS STEEL :

- Reinforced HPPE
- The addition of fiberglass can increase to A3 cut level
- The addition of stainless steel can increase to A5 or higher cut level



KEVLAR®:

- Engineered Yarn by DuPont®
- Fire Resistant
- Offers High Cut Levels
- Is available in gloves and cut sleeves



DYNEEMA® DIAMOND TECHNOLOGY:

- Uses embedded micro fibers to strengthen fibers up to 2x
- Offers higher cut levels
- Has great durability and abrasion resistance
- Cool to the touch



TEKTYE™ by RADIANS®

This engineered yarn can get to an ANSI cut level of A4 **WITHOUT THE USE OF FIBERGLASS OR STAINLESS STEEL.**

Provides more comfort and dexterity vs HPPE with Fiberglass or Stainless Steel.

Cost effective option for higher cut levels.

GLOVE COATINGS

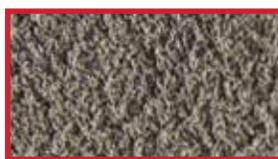
To address specific work-related hand protection issues, Radians uses several different types of palm coatings: smooth nitrile, foam nitrile, sandy foam nitrile, foam latex, sandy foam latex, crinkle latex, PU (polyurethane), and FDG™. Palm coatings allow for better gripping capabilities and tactile sensation without losing dexterity.

COATING DESCRIPTIONS:



SMOOTH NITRILE

- Excellent Abrasion Resistance
- Synthetic Rubber, Latex Free
- Excellent Puncture Resistance
- Tactile Sensitivity and Flexible Grip



FOAM LATEX

- Micro Texture
- Better Breathability and Comfort
- Excellent Flexibility
- Resistant to Tears and Cuts



FOAM NITRILE

- Lightweight Micro Texture
- Good Grip in Wet or Dry Applications
- Breathable, Flexible and Porous
- Excellent Abrasion Resistance



SANDY FOAM LATEX

- Micro-Roughened Texture
- Better Breathability and Comfort
- Excellent Flexibility
- Resistant to Tears and Cuts



SANDY FOAM NITRILE

- Micro-Roughened Texture
- Excellent Grip in Wet or Dry Applications
- Breathable, Flexible and Porous
- Excellent Abrasion Resistance



CRINKLE LATEX

- Rough Texture for Better Grip and Abrasion
- Better Breathability and Comfort
- Excellent Flexibility
- Resistant to Tears and Cuts



MICROFOAM NITRILE

- Micro Textured
- Excellent Abrasion Resistance
- Good Grip in Wet or Dry Applications
- Breathable, Flexible and Porous



PU (POLYURETHANE)

- Semi-Smooth Texture
- Extremely Flexible
- Superior Dexterity
- Not as Durable as Nitrile or Latex



- Proprietary, Engineered Coating by Radians
- Flexible and Durable
- Provides Better Grip than Nitrile

FDG: WHY IS IT IMPORTANT?

When dealing with Foam, Micro Foam or Sandy Foam Nitrile to get the best grip you must give up some abrasion resistance and to get the best abrasion resistance you have to give up some grip.

With FDG you no longer must give up any of these. You get the **BEST OF BOTH WORLDS.**

GRIP

Good: Micro Foam Nitrile
Better: Foam Nitrile
Best: Sandy Foam Nitrile
Exceptional: **FDG™**

ABRASION

Good: Sandy Foam Nitrile
Better: Foam Nitrile
Best: Micro Foam Nitrile
Exceptional: **FDG™**



CUT PROTECTION GLOVES

FAST FACTS



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5131 fast facts_cut gloves_REV04