



Cut Resistant Series Vol. 19



Cut and puncture wound hazards in the workplace come from handheld sharp cutting tools which includes knives, razors, pruners, chisels, snips, etc., as well as the handling of materials such as metal, glass, and sharp-edged plastics. These types of hazards can be reduced through training employees to choose, store, and use tools properly, and ensuring maintenance and repair of sharp and cutting tools. Another means of protecting employees is with personal protective equipment (PPE)-namely cut resistant gloves.

This guide is all about cutting. Although topics such as abrasion, puncture, and tear are mentioned, they are all very different forms of breaking apart material. You will read below about the two methods of testing cut resistance which our gloves are rated by. Please note, cutting gloves with a pair of scissors involves 'shear', which is a different kind of force from the slicing type of cut faced in industrial applications. Scissors have 2 sharp blades applying stress in both directions. Cut resistance can not be categorized through scissor tests.

It is important to keep in mind that there is really no such thing as a "cut proof" glove—you will never hear us describe our products as such. Work gloves can be cut resistant, but with enough pressure, all gloves will allow a sharp-edged object through. How well the glove performs also depends on how you maintain the glove—the manufacturer's recommendations for glove care need to be followed for optimum performance.

Ultimately, being educated about risks and hazards in the workplace is what protects us the best.



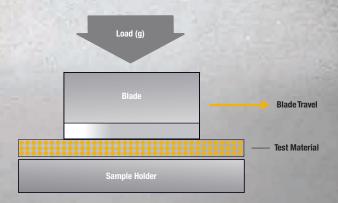


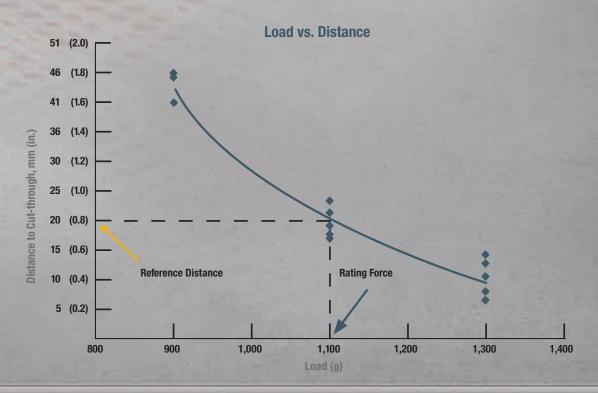


ANSI TEST METHOD

ISO 13997 Test Method

In the ISO 13997 test methods, the sample is cut by a straight-edge blade, under load, that moves along a straight path. The sample is cut five times each at three different loads and the data is used to determine the required load to cut through the sample at a reference distance of 20 mm (0.8 in.). This is referred to as the Rating Force or Cutting Force (Refer to Diagram below). The higher the Rating Force, the more cut-resistant the material. Neoprene rubber is used as the standard to evaluate blade sharpness.









CUT RESISTANT STANDARD

In January 2016 the American National Standards Institute (ANSI) introduced a new standard called the ANSI/ISEA 105. The goal for updating this standard was to create consistency between ANSI and EN388 methods as well as to account of the recent advances in cut resistant yarns and technologies. Both the new ANSI F2992-15 cut test method and EN ISO 13997 now use the same TDM-100 machines and as a result, their scores now roughly correlate as you can see illustrated in the chart below.



The 2016 revision of the ANSI/ISEA 105 standard is a more expanded level of classification of cut resistance:

- The ANSI ASTM F2992-15 cut test method now features 9 levels of cut resistance: A1-A9 with smaller increments between levels
- · Additional levels have also been added to the higher end of the cut resistance scale to account for new cut resistant materials and technologies coming on to the market.

For the EN 388 cut test ratings, both the Coup Test cut score and ISO 13997 rating are required to be represented on the En 388 score

The new ISO 13997 rating is represented by the letters A-F at the end of the score











EN388 AND ANSI PICTOGRAMS

EN388: 2016 Pictogram:

The EN 388 rating is scored from



Abrasion Resistance Rating Cut Resistance Rating (Coup) Tear Resistance Rating (Newtons) Puncture Resistance Rating (Newtons) Cut Resistance Rating (TDM Score) Impact Resistance Rating

ANSI F2992-15 Icon:

The ANSI ratings is scored from A1-A9



CHOOSE YOUR CUT LEVEL

ANSI F2992 - 15

Cut rating from A1-A9 (9 levels)

Measured in Grams of Force 1gf = 0.0098N



EN388: 2016 Measured in Newtons

1N = 101.97qf

Cut rating from A-F (6 levels)

Materials

6000+ gf A9

5000 - 5999 gf A8

4000 - 4999 gf A7

3000 - 3999 gf A6

2000 - 2999 gf A5

1500 - 1999 gf A4

1000 - 1499 gf A3

500 - 999 gf A2

Application

30 N (3059 gf)

22 N (2243 gf)

15 N (1529 gf)

10 N (1019 gf)

5 N (309 gf)

A 2 N (203 gf)

200 - 499 gf A 1











TYPES OF CUTS

THINGS TO CONSIDER WHEN CHOOSING GLOVES

TYPES OF CUTS:

Slicing

Caused by the sliding of the skin across a very sharp edge. The sliding action can be a result of the hand or other skin surface sliding across the sharp edge or by the sharp edge sliding across the stationary hand or other skin surface. Examples of this type of cut would be a slip of the knife when dicing vegetables.

Abrasions

This type of cut is the process of scraping or wearing away. The surface may or may not be sharp/jagged.

Punctures or Impact Cuts

These result from sharp or pointed objects impacting the skin (falling pane of glass or sheet of metal). Punctures are often categorized as cut hazards because they cause lacerations. When dealing with this type of hazard, it is important to remember that the initial protection needed is not cut resistance, it is puncture resistance—they are not the same thing. The hand is getting cut because the barb or shard is penetrating the surface of the glove. A coating or leather patch can be added to the glove surface to help prevent shards from penetrating.

Edge Sharpness

All edges are sharp, however, a true assessment of this hazard can reduce the likelihood of cut incidents and decrease the severity of them, should they still occur. There are many different types of cut resistant fibers to choose from, and each has a cost and/or protection benefit that can be evaluated.

Edge Roughness

Thin gauge sheet metal has a smaller burr when stamped or punched than thicker gauge sheet metal. Bigger burrs or rougher edges require thicker or heavier weight gloves. The thickness will prevent the burr from penetrating the glove and cutting the hand. Heavier weight gloves will wear longer when exposed to rougher edges. Yarns with higher tensile strength combined with abrasion resistance are required in these applications.

Surface Texture

Dry surfaces require gloves with grip. Oily surfaces require gloves with absorption in order to get a good grip. Different grips can be added to cut resistant gloves by dipping, dotting, or screening.

Moving Edges vs. Stationary Edges

Moving edges require thicker gloves because the edge tears the glove surface as it passes along the palm. Thickness, in this case, equates to wear resistance. Stationary edges require less reinforcement. It is important to note the moving edge referenced here occurs when a hand slides along a piece of metal or glass as it is grabbed. No glove can protect against a moving or rotating blade.

Assembly

Hand cut injuries often occur in sheet metal assembly areas where moving parts (nuts, bolts, and screws) are driven with automatic wrenches and screwdrivers. As a general rule, knit gloves should not be used in these areas because they can catch on the edge of a turning screw or bolt as it is driven. Gloves with a tacky grip can pose the same hazard. Gloves knit with cut-resistant fibres can be dipped with coatings that encapsulate the knit fibres and provide dry, wet, and oily surface gripping without being tacky.









CUT FIBRES + MATERIALS



FIBRES/ MATERIALS

Cut Shield™

Cut Shield™ is a cut resistant ANSI A4, A5, A7 liner made from a blend of P-aramid, glass and polyester fibres.

Kevlar® Aramid Fibre

DuPont™ Kevlar® is an extraordinarily strong, light, and flexible material, highly cut and heat resistant. It is inherently flame resistant and self-extinguishing—thread made of Kevlar® fibre is used to sew seams on temperature-resistant gloves. This makes Kevlar® work gloves useful for welding and manufacturing facilities such as glass plants and refineries. Kevlar® also finds use in automotive manufacturing, lumber falling, law enforcement, veterinary or animal control operations, construction, steel and metal working applications, and garment manufacturing.

Leather & Cotton

One of the most common misconceptions when dealing with cut resistance is that leather is a good cut resistant material. While it is true that an extremely thick leather glove will provide some degree of cut resistance, pound per pound cotton actually has a greater cut resistance than leather. In order to have any degree of protection, the leather has to be so thick that it becomes a very uncomfortable glove that leaves you with little dexterity. The primary reason you need cut resistance gloves is because your skin cuts very easily. And, since leather is just skin of an animal, it cuts just about as easily.

Though we have a couple leather gloves in our cut resistant guide, they have Spectra® fibre linings, which is where the majority of the cut resistance is derived.

FOUR FACTORS THAT INFLUENCE CUT RESISTANCE OF A GLOVE

- 1. Strength of the yarns hi tensile strength yarns are Kevlar® and Dyneema
- 2. Harness (dulling) stainless steel woven into the yarn will increase its hardness
- 3. Lubricity (Slickness) slippery yarns like Spectra and Dyneema will allow the blade to slide over its surface
- **4. Rolling actions (Knit construction) -** most gloves will allow the yarns to roll as the sharp edge slides across without cutting the metal

The type of coating (nitrile, latex, pu, etc.) can affect the cut resistance as well. The more of these factors that can be engineered into a glove, the more cut resistant it will be.









351 Stealth Frontier

13gg HPPE/ glass/ WasteNot™ polyester seamless knit made from 10.8% (+/-2%) recycled post consumer PET bottles, sandy latex palm with PVC reinforced sewn on thumb saddle, treated to bead water off which lasts up to 5 washes, snug-fitting seamless knit wrist

Size XS-XXL

*One - 500mL recycled plastic bottle is used to make one pair of gloves















352 Stealth Desert Storm

15gg Kevlar™/glass/Lycra seamless knit shell, ultra strong foam nitrile coating, snug-fitting wrist, CFIA approved

Size S-XXL

EN388 4X31B ANSI Cut A2 - F2992-15 534 Grams



RATINGS I TECHNOLOGIES









353 Stealth Dynamo!

HPPE fibre seamless knit shell, sure-grip foam nitrile coating with textured finish, snug-fitting knit wrist, CFIA approved Size S-XXL

EN388 4342B ANSI Cut A2 - F2992-15 761 Grams

STERLIN



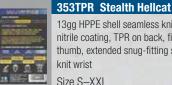












13gg HPPE shell seamless knit shell, foam nitrile coating, TPR on back, fingers and thumb, extended snug-fitting seamless knit wrist

Size S-XXL

EN388 4X42CP ANSI Cut A3 - F2992-15 **1194 Grams**

STEGLIH















seen" with hi-vis safety yellow, sandy nitrile coating, ergonomically formed, extended snug-fitting knit wrist

Size XS-XXL

EN388 4X42EX ANSI Cut A5 - F2992-15

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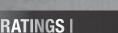
357TPR Stealth Dog Fight

HPPE/glass/steel/nvlon shell, heavy duty TPR on fingers, thumb, knuckles, and back of hand, hi-vis sandy nitrile finish coating, extended snug-fitting seamless knit wrist

Size S-XXL

EN388 4X42EP ANSI Cut A5 - F2992-15

STEGLTH



TECHNOLOGIES















360 Stealth Destroyer











359 Stealth Stinger

15gg fine gauge HPPE/nylon/glass/Lycra seamless knit shell, polyurethane coating, snug-fitting knit wrist

Size XS-XXL

EN388 3X42B ANSI Cut A2 - F2992-15 582 Grams



RATINGS I **TECHNOLOGIES**













13gg HPPE/steel/nylon fibre seamless knit shell, sure-grip sandy nitrile coating with textured finish, touchscreen compatible coating can be used on all touchscreen devices, reinforced thumb saddle, lightly padded palm, snug-fitting knit wrist

Size S-XXL

EN388 4X44F ANSI Cut A7 - F2992-15

STEGLT

RATINGS I TECHNOLOGIES























362 Stealth Hornet

18gg HPPE/nylon/glass/spandex seamless knit shell, foam nitrile coating, snug-fitting

Size XS-XXL

EN388 4543C ANSI Cut A4 - F2992-15 **1680 Grams**















367 Stealth Falcon

15gg glass/nylon/HPPE/spandex shell, 2NFT (nitrile foam technology) with nitrile thumb saddle, conductive coating can be used on all touchscreen devices, snug-fitting knit wrist

ANSI Cut A3 - F2992-15













365 Stealth Cobra

18gg glass/nylon/HPPE/spandex shell, 2NFT (nitrile foam technology) with reinforced nitrile thumb saddle, conductive coating can be used on all touchscreen devices, snug-fitting knit wrist

Size XS-XXL

EN388 4X31B ANSI Cut A2 - F2992-15

STER











RATINGS I

TECHNOLOGIES

369 Stealth Phantom

12 pack, 13gg HPPE/steel/glass seamless knit shell, lightweight polyurethane coated, snug-fitting seamless knit wrist

Size XS-XXL

*sold as pairs not unit

EN388 4X43D ANSI Cut A4 - F2992-15 **2096 Grams**













378 Stealth Scorpion

15gg HPPE/steel/nylon/spandex shell. lightweight polyurethane coated palm, touchscreen compatible coating can be used on all touchscreen devices, snua-fittina knit wrist

Size S-XXL

EN388 4X42E ANSI Cut A5 - F2992-15



RATINGS I TECHNOLOGIES















379 Stealth Phoenix

18gg HPPE/ glass/ WasteNot™ polyester seamless knit made from 9.6% (+/-2%) recycled post consumer PET bottles, premium sandy nitrile palm with reinforced thumb saddle, conductive coating can be used on all touchscreen devices, treated to bead water off which lasts up to 5 washes, snug-fitting seamless knit wrist

Size XS-XXL

*0.57 - 500mL recycled plastic bottle is used to make one pair of gloves

RATINGS I TECHNOLOGIES







387 Stealth Orange Crush







384 Stealth Black Widow

12 pack, 13gg HPPE/steel/glass/nylon/ spandex seamless knit shell, lightweight polyurethane coated palm for a sure-grip, snug-fitting knit wrist

Size XS-XXL

*sold as pairs not unit

EN388 4X4F2 ANSI Cut A6 - F2992-15

RATINGS I TECHNOLOGIES

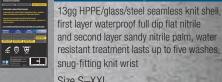














EN388 4X42E ANSI Cut A5 - F2992-15



RATINGS I TECHNOLOGIES













387TPR Stealth Orange Crush

13gg HPPE/glass/steel/ WasteNot^{TI} polyester seamless knit made from recycled post consumer PET bottles, first layer water resistant full dip flat nitrile and second layer sandy nitrile palm, rubber on back of hand, treated to bead water off which last up to 5 washes, snug-fitting knit wrist

Size XS-XXL

*1.5 - 500mL recycled plastic bottle is used to make one pair of gloves

RATINGS I **TECHNOLOGIES**















388 Stealth Cyclone

18gg HPPE / WasteNot™ polyester seamless knit made from 12% (+/-2%) recycled post consumer PET bottles, premium sandy nitrile palm with reinforced thumb saddle, conductive coating can be used on all touchscreen devices, treated to bead water off which lasts up to 5 washes, snug-fitting seamless knit wrist

Size XS-XXL

*0.67 - 500mL recycled plastic bottle is used to make one pair of gloves

RATINGS I TECHNOLOGIES















407CR Storm

Dryhide™ oil resistant cowhide palm and back, stitched with Kevlar®, Cutshield™ liner made from P-aramid, steel and modacrylic fibres, snug-fitting shirred elastic wrist, 3" band cuff, proudly Canadian made

Size S-XXL

407GCR gauntlet cuff ANSI Cut A5 - F2992-15

RATINGS I TECHNOLOGIES















455 Triple Shot

ANSI A3 nylon/glass liner, hi-vis yellow fully coated PVC with sandy finish, proprietary rubber on back of hand, 30cm gauntlet style cuff

Size L-XXL

ANSI Cut A3 EN388 4X32B **EN374-3 - KLT TYPE B**



RATINGS I TECHNOLOGIES











Find Your Fit

Place your right palm on the size chart with your fingers closely together. Measure the width of your hand by aligning the knuckle of your index finger beside the red line. This is an approximate measurement; sizing can vary slightly from style to style.

Extra Extra Small 5 Extra Small 6 Small 7 Medium 8

Large 9 Extra Large 10 Extra Extra Large 11 One Size OS

> XXS XS XXL Μ 6 8 9 10











456 Hammered

13gg Aramid/steel/nylon cut resistant liner, "Be safe, be seen" with hi-vis orange PVC coating, sandy finish, heavy duty TPR on back of hand, 30cm gauntlet style cuff

9456 Acrylic lining

Size M-XL



RATINGS I TECHNOLOGIES













547 Van Goat

Cutsheild™ P-aramid/polyester/glass liner, full-grain goatskin leather, drivers style with inset thumb, snug-fitting shirred elastic wrist, slip-on style cuff

Size XS-XXL

ANSI Cut A4 - F2992-15 EN388 3X22D **Arc Flash Level 3 2150 Grams**

RATINGS I **TECHNOLOGIES**













Cutsheild™ P-aramid/polyester/glass liner, full-grain goatskin leather, gunn cut, wing thumb, pulse protector, gauntlet style cuff Size M-XXL

ANSI Cut A4 - F2992-15 EN388 3X22D **2150 Grams**

RATINGS I TECHNOLOGIES











547TPR Van Goat

Cutshield™ P-aramid/steel/polyester liner, hard-wearing premium full-grain goatskin leather, flame resistant heavy duty rubber on back of hand, fingers and wrist, stitched with Kevlar® thread, drivers style with inset thumb, shirred elastic wrist Size XS-XXXL

ANSI Cut A5 - F2992-15

RATINGS I TECHNOLOGIES













549TPR Van Goat

Cutshield™ P-aramid/steel/polyester liner, hard-wearing premium full-grain goatskin leather, flame resistant heavy duty rubber on back of hand, fingers and wrist, stitched with Kevlar® thread, gauntlet style cuff

Size XS-XXXL

ANSI Cut A5 - F2992-15



TECHNOLOGIES













005TPC Flextime

Drvhide[™] water-resistant full-grain goatskin leather palm, Cutshield™ ANSI A5 full-sock liner, heavy duty rubber on back of hand and fingertips, conductive fingertips can be used on all touchscreen devices, hooded fingertips and reinforced thumb, snug-fitting elastic wrist with secure Velcro® closure

Size S-XXL

WORK HAMOUR



















5785 Shock Trooper

Cutshield™ liner made from P-aramid, steel and modacrylic fibres, Dryhide™ water and oil resistant goatskin leather, D30® iA components for enhanced impact protection. EVA padded palm and wrist patch, stitched with Kevlar® thread, snug-fitting shirred elastic wrist

\$0.50 per pair to donated to the **Wounded Warriors Foundation** Size XS-XXXL

RATINGS I













5785G Shock Trooper

Cutshield™ liner made from P-aramid, steel and modacrylic fibres, Dryhide^T water and oil resistant goatskin leather, D30® iA components for impact protection, EVA padded palm patch and pulse protector, stitched with Kevlar® thread, gauntlet style cuff

\$0.50 per pair to donated to the **Wounded Warriors Foundation** Size XS-XXXL

RATINGS I TECHNOLOGIES



















1051 The Breakdown

Cutsheild™ Para-aramid/steel/polyester liner, WasteNot™ spandex back made from 96% recycled post consumer PET bottles, <u>Durafibre</u>[™] microfibre palm and hooded fingertips, silicone printed palm, PVC thumb saddle, heavy duty rubber, conductive fingertips can be used on all touchscreen devices, neoprene cuff with secure Velcro® closure

Size S-XXL

RATINGS I TECHNOLOGIES 😂 3













5782CR Storm Trooper

Full-grain deerskin leather back with Dryhide™ oil and water resistant cowhide leather palm, stitched with Keylar®, impact protection heavy duty flame resistant rubber on back of hand and thumbs, Cut Shield[™] ANSI A5 liner, snug-fitting shirred elastic wrist, "Be safe, be seen" with reflective strip on 3" band cuff

95782CR 3M Thinsulate™ C100 lining STORM

Size S-XXI

RATINGS I TECHNOLOGIES



















Full-grain deerskin leather back with Dryhide[™] oil and water resistant cowhide leather palm, stitched with Kevlar® thread, flame resistant heavy duty rubber on fingers and knuckle bar, cut resistant Cut Shield™ ANSI A5 liner, shirred elastic wrist, 4.5" gauntlet style cuff, made in Canada

95782GCR 3M Thinsulate™ C100 lining Size S-XXL

























WasteNot™ spandex back made from 96% recycled post consumer PET bottles, ultimate needlestick, cut and puncture resistance, 4/8 Alycore configuration, heavy duty Titanfibre™ palm, palm patches, snug-fitting shirred elastic wrist, slip-on style cuff

034ALY24 - 2/4 Configuration

Size M-XL

GRIDLOCK

RATINGS I TECHNOLOGIES



























533CR Black Velvet

ANSI A5 cut resistant liner, durable elksplit leather back with full-grain reverse palm. stitched with Kevlar®, cotton fleece lined back of hand, left hand leather back patch and pulse protector, gauntlet style cuff with leather gore and snug-fitting shirred elastic wrist, proudly made in our local Burnaby, BC factory

Size S-XXL



RATINGS I **TECHNOLOGIES**











527CR Steel Panther

ANSI A5 cut resistant liner, elk split leather palm and back, stitched with Kevlar thread, fully wrapped leather index finger, vibration dampening gel padded palm, snug-fitting shirred elastic wrist with 4.5" gauntlet style cuff with leather gore, proudly made in our local Burnaby, BC factory

Size S-XXL



RATINGS I **TECHNOLOGIES**









534CR Iron Fist

ANSI A5 cut resistant liner, durable elksplit leather back and palm, stitched with Keylar®, cotton fleece lined back of hand. elksplit leather knuckle bar and inset thumb, 4 1/2" gauntlet style cuff with leather gore, snug-fitting shirred elastic wrist, proudly made in our local Burnaby, BC factory

Size S-XXL













1039CR Meltdown

ANSI A5 cut resistant liner, elksplit leather back and palm stitched with Kevlar®, cotton fleece lined back of hand, green heat treated cow split leather palm patches and pulse protector, wing thumb, extended gauntlet style cuff with wool lining, proudly made in our local Burnaby, BC factory

Size S-XXL













2780 Thrasher

Split cowhide leather stitched with Kevlar®. Cutshield[™] P-aramid/steel/polyester liner, full leather index finger and inset thumb, gauntlet style cuff with shirred elastic wrist Size S-XXL

















Split cowhide leather stitched with Keylar® thread, Cutshield™ P-aramid/steel/ polyester liner, full-grain leather palm, inset thumb and fingertips, gauntlet style cuff with shirred elastic wrist, made for a woman's hand

Size S-M

2782 Fired Up











9533TCR Black Velvet

3M Thinsulate™ C100 lining, Cutshield™ P-aramid/steel/polyester liner, durable elksplit leather back with full-grain reverse palm, stitched with Kevlar®, cotton fleece lined back of hand, left hand leather back patch and pulse protector, gauntlet style cuff with leather gore and snug-fitting shirred elastic wrist, proudly made in our local Burnaby, BC factory

Size S-XXL



9527TCR Steel Panther

3M Thinsulate™ C100 lining, Cutshield™ P-aramid/steel/polyester liner, elk split leather palm and back, stitched with Kevlar® thread, fully wrapped leather index finger, vibration dampening gel padded palm, snug-fitting shirred elastic wrist with 4.5" gauntlet style cuff with leather gore, proudly made in our local Burnaby, BC factory

Size S-XXL























WINTER CUT RESISTANT GLOVES



95785 Shock Trooper

3M Thinsulate™ C40 palm and C100 back lining, Cutshield™ liner made from P-aramid, steel/glass and polyester fibres, Dryhide[™] water and oil resistant goatskin leather, D30® iA components, EVA padded palm and wrist patch, stitched with Kevlar® thread, snug-fitting shirred elastic wrist Size XS-XXXI

RATINGS I **TECHNOLOGIES**













95785G Shock Trooper

3M Thinsulate™ C40 palm and C100 back lining, Cutshield™ liner made from P-aramid, steel/glass and polyester fibres, Dryhide[™] water and oil resistant goatskin leather, D30® iA components, EVA padded palm and wrist patch, stitched with Kevlar® thread, gauntlet style cuff Size XS-XXXL

RATINGS I TECHNOLOGIES















9547TPR Van Goat

3M Thinsulate™ C100 lining with an additional layer of microfleece, Cutshield™ premium P-aramid/steel/polyester liner, Dryhide™ water and oil resistant full-grain goatskin leather, flame resistant heavy duty rubber on back of hand, fingers and wrist, stitched with Kevlar® thread, drivers style with ergonomic inset thumb, snug-fitting shirred elastic wrist

RATINGS I TECHNOLOGIES















9549TPR Van Goat

3M Thinsulate™ C100 lining with an additional layer of microfleece, Cutshield™ premium P-aramid/steel/polyester liner, hard-wearing full-grain goatskin leather, flame resistant heavy duty rubber on back of hand, fingers and wrist, stitched with Kevlar® thread, gauntlet style cuff Size XS-XXXL

RATINGS I TECHNOLOGIES













9549TPR1F Van Goat

3M Thinsulate™ C100 lining with an additional layer of microfleece, Cutshield™ premium P-aramid/steel/polyester liner, Dryhide™ water and oil resistant full-grain goatskin leather, flame resistant heavy duty rubber on back of hand, fingers and wrist, stitched with Kevlar® thread, one finger mitt style with wing thumb, gauntlet style cuff

Size M-XXL

RATINGS I **TECHNOLOGIES**

















94071FGCR Ice Storm

3M Thinsulate™ C200 palm/C300 back lining, Cutshield™ premium P-aramid/ steel/polyester liner, Dryhide™ oil resistant cowhide palm and back, one-finger mitt design, stitched with Kevlar®, gauntlet style cuff, proudly made in our local Burnaby, BC factory

Size S-XXL













95783GCR Storm Trooper Mitt

3M Thinsulate™ C300 lining (5 finger lining), cowhide leather back with Dryhide™ water and oil resistant cowhide leather palm, stitched with Kevlar® thread. Cutshield™ premium P-aramid/steel/ polyester liner, flame resistant heavy duty rubber on back of hand and thumb, Gauntlet style cuff with leather gore, made in Canada

Size L-XL

STORM TROOPER

RATINGS I TECHNOLOGIES













91051 The Breakdown

Cold MX™ 55 palm and 115 back of hand lining, Cutshield™ ANSI A5 liner, Durafibre™ microfiber palm and hooded fingertips, touchscreen conductive fingertips, silicone printed palm, spandex back, Hy+Dry barrier, rubber on back of hand, neoprene cuff with secure Velcro® closure

Size S-XXL

ANSI A5 - F2992-15 EN388 3X33EP

WORK HIMOUR

RATINGS I TECHNOLOGIES ANSI/ISEA 138























WINTER CUT RESISTANT GLOVES



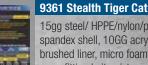
911 Stealth Danger Zone

18gg Kevlar®/HPPE/steel/spandex shell, 2NFT (nitrile foam technology), snug-fitting elastic knit wrist

Size S-XXL

EN388 4X42F ANSI Cut A6 - F2992-15



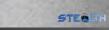


15gg steel/ HPPE/nylon/polyester/ spandex shell, 10GG acrylic terry

brushed liner, micro foam nitrile, snug-fitting knit wrist

Size S-XXL

EN388 4X43F ANSI Cut A6 - F2992-15



RATINGS I TECHNOLOGIES







STEQUE

RATINGS I **TECHNOLOGIES**













9390 Stealth Mach 5

Nylon/glass/acrylic shell with 7gg brushed seamless knit terry liner, 3/4 dipped, PVC coating, treated with Sanitized Actifresh® which prevents bacteria growth, snug-fitting knit wrist

Size M-XXL

EN388 3X42C ANSI Cut A4 - F2992-15

















9398 Stealth Triple Threat

Acrylic lining, 15gg glass/nylon/steel seamless knit shell, waterproof double dipped 3/4 dip flat nitrile/foam nitrile coating, snug-fitting knit wrist Size S-XXL









STER



WINTER CUT RESISTANT GLOVES



9398TPR Stealth Triple Threat

Acrylic lining, 15gg glass/nylon/steel seamless knit shell, waterproof double dipped 3/4 dip flat nitrile/foam nitrile coating, heavy duty TPR on back of hand, snug-fitting knit wrist

Size S-XXL

EN388 4X42EP ANSI Cut A5 - F2992-15

STEGLT















9393 Stealth Black Ops

Acrylic lining, 15gg glass/nylon seamless knit shell, waterproof double dipped full dip flat latex/foam latex coating, snug-fitting knit wrist

Size S-XXL

EN388 2X31C ANSI Cut A3 - F2992-15

STEGUT

RATINGS I TECHNOLOGIES

















Acrylic lining, 13gg Aramid/steel/nylon cut resistant liner, "Be safe, be seen" with hi-vis orange PVC coating, sandy finish, heavy duty TPR on back of hand, 30cm gauntlet style cuff

Size M-XL

ANSI Cut A5 - F2992-15 EN374-1:2016 - AKLOPT **EN388 3X43EP**



















9547 Van Goat

3M Thinsulate™ C100 lining with an additional layer of microfleece, Cutsheild™ P-aramid/polyester/steel liner, Dryhide™ water and oil resistant full-grain goatskin leather, drivers style with inset thumb, snug-fitting shirred elastic wrist, slip-on style cuff

Size XXS-XXL

RATINGS I TECHNOLOGIES















TECHNOLOGIES

9549 Van Goat

3M Thinsulate™ C100 lining with an additional layer of microfleece, Cutsheild™ P-aramid/polyester/steel liner, Dryhide™ water and oil resistant full-grain goatskin leather, classic gunn cut with wing thumb, welted seams and pulse protector, gauntlet style cuff with leather gore

Size M-XXL



9407GCR Ice Storm

3M Thinsulate[™] C100 lining, Dryhide[™] oil resistant cowhide palm and back, stitched with Kevlar, Cutshield™ liner made from P-aramid, steel and modacrylic fibres, gauntlet style cuff, proudly made in our local Burnaby, BC factory

Size S-XXL





















9407CR Ice Storm

3M Thinsulate[™] C100 lining, Dryhide[™] water and oil resistant cowhide leather, stitched with Kevlar®, Cutshield™ liner made from P-aramid, steel and modacrylic fibres, snug-fitting shirred elastic wrist, 3" band cuff, proudly made in our local Burnaby, BC factory

Size S-XXL



RATINGS I **TECHNOLOGIES**













RATINGS I TECHNOLOGIES

102WS Kevlar® Sleeve

Cut and flame resistant Kevlar® knit, 10" in length, 2 layer construction

101WS 1 layer construction

EN388 Cut Level 3 - F1790-97









GLOVES JOBS



#9456

HAMMERED



AKLOPT

- . 13GG acrylic lining keep hands warm in cold conditions
- · Aramid steel/ nylon liner is cut resistant offering superior protection
- . Hi Vis orange fully coated PVC with sandy finish provides chemical protection
- . Heavy duty rubber on back of hand, fingers and wrist provides impact protection

WATSONGLOVES.COM

N/A		352 Stealth Desert Storm	353 Stealth Dynamo!	359 Stealth Stinger	365 Stealth Cobra	388 Stealth Cyclone	353TPR Stealth Hellcat
FAIR GOOD EXCELLENT EXTREME							
RESISTANCE AGAINST BLADE CUTS	in.						
RESISTANCE AGAINST ROUGH EDGES							
NEEDLEPOINT PUNCTURE RESISTANCE*							
DEXTERITY							
FLEXIBILITY							
COMFORT							
RESISTANCE TO ABRASION (EN 388)		4	4	3	4	4	4
RESISTANCE TO CUT (EN 388)		Х	3	Х	Х	Х	Х
RESISTANCE TO TEAR (EN 388	3)	3	4	4	3	4	4
RESISTANCE TO PUNCTURE (EN 388)		1	2	2	1	2	2
ISO 13997 CUT RATING (EN 388)		B†	B [†]	В	В	В	С
RESISTANCE TO IMPACT (EN	388)			1/2/300			Р
ANSI / ISEA 138 IMPACT RATI	NG			OF A DATE OF			2
2016 ANSI CUT RATING (F2992M-15)		A2 (534G)	A2 (761G)	A2 (582G)	A2 (738G)	A2	A3 (1194G)
ANSI PUNCTURE RATING		2	3	3	2	3	3
ARC FLASH RATING	tu i		M. Guran	THE BUS			
FEATURES AND BENEFITS	DRY						
OF THE GRIP	OILY						
Section 1	WET						
RECOMMENDED APPLICATIONS		Automotive Construction Material handling Engineering Assembly Inspection/ Examination Moderate cool temperatures where protection is still needed	Automotive Construction Material handling Engineering Assembly Inspection/ Examination Moderate cool temp. where protection is still needed	Detailed assembly Inspection Light fabrication and smal parts handling General purpose	Automotive Construction Material handling Engineering Assembly Inspection/ Examination Moderate cool temperatures where protection is still needed	Automotive Construction Material handling Engineering Assembly Inspection/ Examination Moderate cool temperatures where protection is still needed	Automotive Construction Material handling Engineering Assembly Inspection/ Examination Moderate cool temperatures where protection is still needed









367 Stealth Falcon	9393 Black Ops	455 Triple Shot	362 Stealth Hornet	369 Stealth Phantom	379 Stealth Phoenix	9390 Stealth Mach 5	547 Van Goat
THE PARTY OF THE P							
4	2	4	4	4	4	4	3
Х	Х	Х	X	Х	Х	5	4
4	3	3	4	4	4	4	3
2	1	2	3	3	2	2	3
C	С	В	C [†]	D	D	Ct	E
- 1000		Р		SELVE		TI ASDI S	
- LACA	4	THE D			TV X		The second
A3 (1064G)	A3	A3 (1270G)	A4 (1680G)	A4 (2096G)	A4	A4 (1605g)	A4 (2150G)
3	2	3	4	4		3	3
				Mille Vice			3***
Material handling Cargo loading /unloading Oil & gas Drilling Mining Demolition Heavy construction Mechanics	Material handling Cargo loading /unloading Oil & gas Drilling Mining Demolition Heavy construction Mechanics	Mining Glass Industry Sheet Metal Handling Handling Oils, detergents, alcohol Agriculture Paper & pulp mills	Building and construction Sheet metal handling Glass industry Automotive Material handling Engineering Assembly / inspection	Heavy construction Metal handling Glass handling Transportation vehicle maintenance Anywhere there is a risk for cut	Building and construction Sheet metal handling Glass industry Automotive Material handling Engineering Assembly / inspection	Automotive Construction Material handling Engineering Assembly Inspection/Examination Cold temp.	Sheet metal handling Cargo loading /unloading Forestry Mining Demolition Construction











				Version	MATERIAL	
2						
	3	100		2	2	3
	5		V 0 1	Х	Х	Х
	2	M. 750		4	4	3
	2	A		4	4	3
	D			E	E	E
38)			177	Р	Р	Р
IG		N SAJK	Dec 11 S	2	2	3
	A4 (2150G)	A5	A 5	A5	A5	A 5
10	3	MG E		5	5	4
mu.	SE BE	1 1 1 1 1 1	Te = 113			
DRY						
OILY						
WET						
	Utilities Barbed Wire Welding Steel factories Sheet Metal handling	Heavy construction Mining Demolition	Heavy construction Mining Demolition	Oil and Gas Heavy construction Mining Demolition	Oil and Gas Heavy construction Mining Demolition	Heavy construction Metal handling Glass handling Transportation vehicle maintenance
	B8) G DRY OILY WET	D BB) G A4 (2150G) 3 DRY OILY WET • Utilities • Barbed Wire • Welding • Steel factories • Sheet Metal	D A4 (2150G) A5 A4 (2150G) A5 Barbed Wire Welding Steel factories Sheet Metal Barbed Wire Welding Demolition	D A4 (2150G) A5 A5 Barbed Wire Barbed Wire Welding Steel factories Sheet Metal Barbet Metal Barbet Metal A5 Barbet Metal Barbet Metal Barbet Metal	5 X 2 4 4 4 D D E 88) P G A4 (2150G) A5 A5 A5 A5 A5 OILY WET 6 • Utilities • Barbed Wire • Welding • Steel factories • Sheet Metal • Sheet Metal • Demolition • Mining • Demolition	S









357 Stealth Dog Fight	351 Stealth Frontier	387 Orange Crush	387TPR Orange Crush	357TPR Stealth Dog Fight	378 Stealth Scorpion	9398TPR Triple Threat
	11712					
4	3	4	4	4	4	4
Х	Х	Х	X	Х	Х	Х
4	4	4	4	4	4	4
2	2	2	2	2	2	2
E	E	E	E	E	E	E
		- WE	Р	Р	STATE OF	Р
	-	TERES I		2	100	2
A 5	A 5	A 5	A5	A 5	A 5	A5
3	3	Title of		3	1	3
	N. District		WE FALLS	Mile Marie		
Building and construction Sheet metal handling Glass industry Automotive Material handling Engineering Assembly / inspection	Building and construction Sheet metal handling Glass industry Automotive Material handling Engineering Assembly / inspection	Building and construction Sheet metal handling Glass industry Automotive Material handling Engineering Assembly / inspection	Building and construction Sheet metal handling Glass industry Automotive Material handling Engineering Assembly / inspection	Building and construction Sheet metal handling Glass industry Automotive Material handling Engineering Assembly / inspection	Building and construction Sheet metal handling Glass industry Automotive Material handling Engineering Assembly / inspection	Building and construction Sheet metal handling Glass industry Automotive Material handling Engineering Assembly / inspection











N/O		547TPR Van Goat	549TPR Van Goat	9547TPR Van Goat	9549TPR Van Goat	9549TPR1F Van Goat 1 Finger	9547 Van goat
N/A NOT RECOMM FAIR GOOD EXCELLENT EXTREME	ENDED		Windows Co.		NAME OF THE PARTY		Winds of the second of the sec
RESISTANCE AGA BLADE CUTS							
RESISTANCE AGA ROUGH EDGES							
NEEDLEPOINT PI RESISTANCE*	UNCTURE						
DEXTERITY	MCC CONTRACTOR						
FLEXIBILITY							
RESISTANCE TO (EN 388)	ABRASION	3	3	3	3	3	3
RESISTANCE TO	CUT (EN 388)	Х	Х	X	Х	Х	X
RESISTANCE TO		3	3	3	3	3	2
RESISTANCE TO (EN 388)		4	4	4	4	4	2
ISO 13997 CUT (EN 388)	RATING	Е	E	E	E	E	D
RESISTANCE TO	IMPACT (EN 388)	Р	Р	Р	Р	Р	77 . 30.7
ANSI IMPACT RA	TING	2	2	2	2	2	11.1100
2016 ANSI CUT F (F2992M-15)	RATING	A5	A5	A 5	A5	A5	A5
ANSI PUNCTURE	RATING	5	5	5	5	5	4
ARC FLASH RATI	NG		10	7.00			
FEATURES AND	DRY						
BENEFITS OF THE GRIP	OILY						
Of THE OTH	WET						
RECOMMENDED	APPLICATIONS	Heavy construction Metal handling Glass handling Transportation vehicle maintenance Anywhere there is a risk for cut	Heavy construction Metal handling Glass handling Transportation vehicle maintenance Anywhere there is a risk for cut	Heavy construction Metal handling Glass handling Transportation vehicle maintenance Anywhere there is a risk for cut	Heavy construction Metal handling Glass handling Transportation vehicle maintenance Anywhere there is a risk for cut	Heavy construction Metal handling Glass handling Transportation vehicle maintenance Anywhere there is a risk for cut	Heavy construction Metal handling Glass handling Transportation vehicle maintenance Anywhere there is a risk for cut
T. A. S.						The second second	









2782 Fired up	2780 Thrasher	527CR Steel Panther	456 Hammered	9456 Hammered	1051 The Breakdown 91051 Lined Version	384 Stealth Black Widow	911 Stealth Danger Zone
		Victoria					
			3	3	4	4	4
			Х	Х	Х	Х	X
			4	4	3	4	4
		9.374	3	3	3	2	2
			E	E	E	F	F
			Р	Р	P		4.4
- 100	Mart I		2	2	3		
A5	A5	A5	A5	A5	A5	A6	A6
			4	4	4	3	3
			PA STR	DECEMBER OF THE PERSON OF THE			
DATE VI							
Welding	Welding	• Welding	Mining Glass Industry Sheet Metal Handling Handling Oils, detergents, alcohol Agriculture Paper & pulp mills	Mining Glass Industry Sheet Metal Handling Handling Oils, detergents, alcohol Agriculture Paper & pulp mills	Heavy construction Metal handling Glass handling Transportation vehicle maintenance Anywhere there is a risk for cut	Heavy construction Metal handling Glass handling Transportation vehicle maintenance Anywhere there is a risk for cut	Building and construction Sheet metal handling Glass industry Automotive Material handling Engineering Assembly / inspection

*** ATPV = 36CAL/CM2

† ISO 13997 cut rating is converted from ASTM F2992-15 cut rating

*25 Gauge Hypodermic Needle tested in accordance with ASTM F2878-10











		9361 Stealth Tiger Cat	360 Stealth Destroyer	5785 Shock Trooper	5785G Shock Trooper	9549 Van Goat	034ALY48 Gridlock
N/A						1971	
NOT RECON	MENDED					and the same	
FAIR					1000	To the same	
GOOD		FT11				VA	
EXCELLENT						1000	All Sections
EXTREME				- SOL	10000		
RESISTANCE BLADE CUTS	AGAINST						
RESISTANCE ROUGH EDGE							
NEEDLEPOINT RESISTANCE*							(F)8.7N (P)12.8N
DEXTERITY							
FLEXIBILITY							
COMFORT	Block Co.						
RESISTANCE TO ABRASION (EN 388)		4	4	2	2	3	4
RESISTANCE TO CUT (EN 388)		Х	Х	Х	Х	5	5
RESISTANCE TO TEAR (EN 388)		4	4	4	4	2	4
RESISTANCE TO PUNCTURE (EN 388)		2	4	3	3	2	3
ISO 13997 CUT RATING (EN 388)		F	F	F	F	D	F
RESISTANCE (EN 388)	TO IMPACT		- 1	Р	Р		
ANSI IMPACT	RATING	100	V	3	3	3	1000
2016 ANSI CU (F2992M-15)	IT RATING	A6(3891G)	A7 (4437G)	A7(4622G)	A7(4622G)	А7	A9 (8800G PALM)
ANSI PUNCTU	IRE RATING	3	5	4	4	W.Physical	4
ARC FLASH R	ATING	1000	COPE COL	SVIII -	Depth	W P	
FEATURES	DRY						
AND BENEFITS	OILY						
OF THE GRIP	WET						
RECOMMENDED APPLICATIONS		Heavy construction Metal handling Glass handling Transportation vehicle maintenance Anywhere there is a risk for cut	Building and construction Sheet metal handling Glass industry Automotive Material handling Engineering Assembly / inspection	Oil and Gas Heavy construction Mining Demolition	Oil and Gas Heavy construction Mining Demolition	Heavy construction Metal handling Glass handling Transportation vehicle maintenance Anywhere there is a risk for cut	Waste management Heavy construction Metal handling Glass handling Anywhere cut & needlestick resistance is required







CHOOSING YOUR NEXT CUT GLOVE WHAT TO KNOW BEFORE YOU BUY



LISTEN UP!

Did you know that the glove cut standards have changed?
ANSI has introduced a new version of the ANSI/ISEA 105
standard to create consistency between the ANSI and
EN 388 testing methods as well as to account for recent
advances in technologies and glove fabrics. They've
introduced a whole new rating system ANSI (A1-A9). Check
out the chart below to figure out which cut level will give
you the protection you need.

CHOOSING YOUR CUT LEVEL

EN 388

(F2992-15) ANSI

Cut rating from A1-A9 (9 levels)

Measured in Grams of Force 1gf = 0.0098N



EN388 (ISO 13997)

Measured in Newtons 1N = 101.97gf

Cut rating from

A-F (6 levels) *proposed

Application

Materials

Metal Mesh

6000+ gf A9

5000 - 5999 gf A8

4000 - 4999 gf A7

3000 - 3999 gf A6

Engineered Yarns
2000 - 2999 af A5

1500 - 1999 gf A4

1000 - 1499 gf A3

Synthetics Polyester/Nylon 500 - 999 gf A2

200 - 499 gf A 1

Extreme

Glass Manufacturing, Recycling Sorting, Metal Fabrication

High

Automotive Assembly

Bulp Paper, Aerospace Industr

E 22 N (2243 gf)

Manufacturing, Warehous

15 N (1529 gf)
Food Prep, Packagin

C 10 N (1019 gf)

B 5 N (309 gf)

A 2 N (203 gf)

Low Hazards

Moderate

handling with sharp edges

^{*} Watson Gloves hereby warns all potential users of its cut resistant products that they are not suitable for all uses.

^{*} The EN 388 Standard is still in the revision process and will be released in 2016



NOTES

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NOTES

















Our Story

Watson in a Nutshell

With a century of experience, Watson Gloves is Canada's single source for hand protection at work, at home, at play. Our team of glove specialists gets tremendous satisfaction from working with our customers to find the perfect hand protection for just about any task imaginable. Whether we source our gloves from the world's finest manufacturers, or hand-craft them in our local factory, every pair of gloves we sell has been selected for top-of-the-line materials, design and craftsmanship. Try on a pair of Watson gloves. Your hands will thank you!

2 Man Show to International Operation

In April 1918, John Watson and Wayne Stanley started a small business selling hand-crafted gloves to Vancouver's dock workers. Today, 103 years later, Watson Gloves has grown across Canada. We are among the country's leaders of distributing hand protection; offering the widest range of quality gloves for work, home and play.

How did we get here? We have stayed true to our founders' belief that quality materials and above-and-beyond customer service go hand-in-glove. We still make gloves. In fact, our artisans — with an average 20 years' experience — put the same level of dedication and craftsmanship into every pair of gloves we make, as did our founders.

Perhaps more importantly, we have expanded our horizons to keep up with our customers' changing needs. Our talented buyers travel the world over in search of the most innovative materials and designs so that we can offer the best gloves for any task: at work, at home, at play. From bustling cities to remote corners of our country and countries across the Atlantic, our team of sales reps and efficient distribution system make it easy to protect the hands of our customers.

At Watson Gloves, we do one thing, and we do it extremely well: we are the glove experts. Mr. Watson and Mr. Stanley would be proud to know that, even as we continue to grow, we continue to earn our reputation as Canada's single source for hand protection.

Our Commitment

At Watson Gloves, quality materials and above-and-beyond customer service go hand-in-glove. You can count on Watson for:

Quality Every pair of gloves we sell has been hand-selected for top-of-the-line materials, design, and craftsmanship.

Service with a Smile Our experienced team of specialists is committed to our customers' complete satisfaction with each and every pair of Watson gloves purchased.

Innovation We commit to staying one step ahead of our customers; anticipating their needs and bringing the most advanced gloves for just about any job imaginable.



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