



*PROTECTIVE INDUSTRIAL PRODUCTS*



# CUT RESISTANT GLOVES & SLEEVES

PIP offers the widest range of Cut-Resistant gloves anywhere in the world. Our cut-resistant gloves are manufactured using a variety of yarns such as **Kevlar®**, **Aramid**, **Dyneema®**, **Nuaramid®** and engineered yarns in styles with the broadest use of coatings and grips.

Cut-resistant gloves can be used in automotive industry assembly operations, appliance manufacturing, glass operations (bottling, sheets), electrical work (electronics and electrical assembly), metal stamping, sheet metal, food service, food processing, poultry and meat packing and recycling. The use of cut-resistant gloves has increased considerably over the years as new yarns and grips have been developed for the safety and protection of your hands.

Our large selection of cut-resistant gloves gives you a choice as to which glove is best suited for your particular needs. We can help recommend which cut and abrasion-resistant glove or sleeve will give you the best protection for your hands and arms.

Please contact your PIP Sales Representative for further information.

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## Trial-Order Program

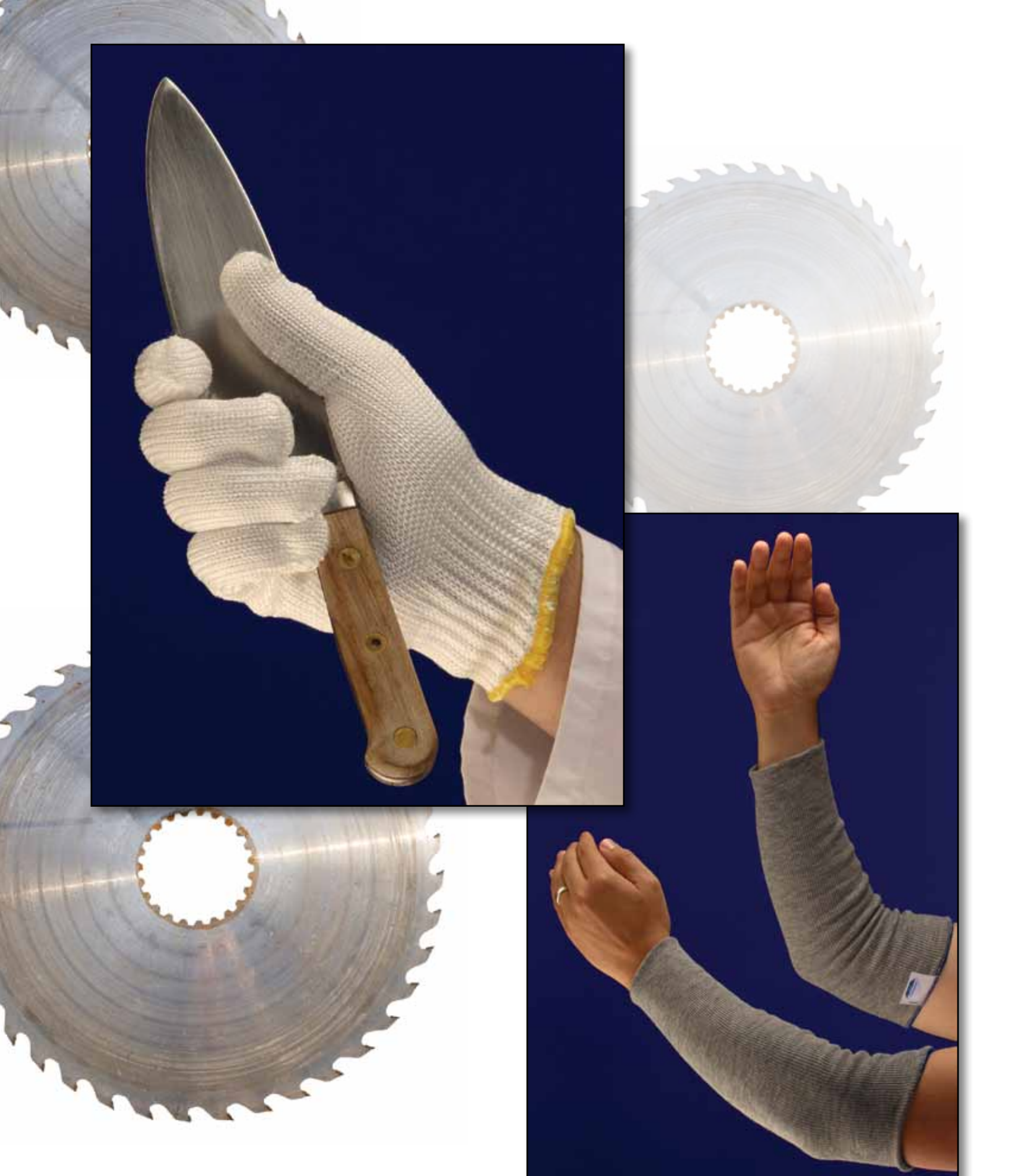
Trial orders are available to customers of Protective Industrial Products distributors on a satisfaction or no-pay basis. The program lets end-users evaluate PIP gloves, in their actual application and on-site condition, on a satisfaction-or-they-don't-pay basis to make sure they're the right gloves for the job.

For more information about our "Satisfaction-or-No-Pay" guaranteed Trial Order Program, please contact your PIP Sales Representative.



**PROTECTIVE INDUSTRIAL PRODUCTS**





**Gloves and Sleeves with Dyneema®**



**For maximum protection,  
accept no substitutes.**

How can you be certain that your employees have the highest level of comfortable protection at work? It's simple...specify gloves that have the "with Dyneema™" label. Only licensed partners are authorized to use this label with the diamond logo on their products, indicating the use of genuine Dyneema® from DSM.

**Gloves made with Dyneema®, the strongest fiber™.**

In addition to protection, there are many other benefits to using cut-resistant gloves made with Dyneema®. They are lightweight and very comfortable, so employees will wear them for longer periods, reducing injuries and the associated costs. In addition, the high abrasion resistance of Dyneema® fiber means that the gloves can be washed and re-used several times, increasing the lifetime and the cost-efficiency.

**The big promise of the small "with Dyneema™" label.**

This small label can be used by a reputable company that has been licensed by DSM to use the Dyneema® brand of fibers. The label not only indicates that the gloves contain genuine Dyneema® fiber made by DSM Dyneema, it also means that DSM Dyneema has tested the prototype of a glove before commercialization under the Dyneema® licensing program. Don't compromise your employees' safety or your business by accepting imitations. Specify gloves only that have the "with Dyneema™" label. It's the safe choice.

To find out more about the comfortable protection offered by Dyneema® fiber, go to [www.thesofterstrength.com](http://www.thesofterstrength.com) or contact your P.I.P. Representative.

## GLOVES WITH DYNEEMA® WITH LABELS

During 2005 DSM Dyneema launched its Licensing Program in which it partners with key manufacturers and glove companies to develop and market high quality cut resistance gloves. These gloves with Dyneema® can be recognized by the diamond shaped label that says “With Dyneema®.” But what are the advantages of gloves with Dyneema® with labels? Our partners enjoy a number of benefits that really make a difference to you as well. Please find below a brief overview.

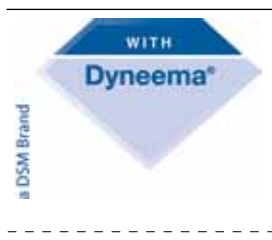


### ADVANTAGES

- **QUALITY ASSURANCE:** As part of the Licensing Program each new glove with Dyneema® needs prior approval of DSM Dyneema before it is put on the market. This is to make sure that the markings on the glove indicating the performance of the glove in terms of abrasion, cut, tear and puncture resistance are indeed met. By testing the glove according to the ASTM and EN norms we make sure that everything is in order, also the minimum content of genuine Dyneema® required.
- **INNOVATIVE PRODUCTS:** By working closely together on product development with both our partners in manufacturing and licensing, we focus on bringing innovative products to the market; new gloves with improved properties that address the needs of your workers even better than before.
- **TRAINED SALES FORCE:** Our Licensees' sales force is educated on a continuous basis to explain the benefits of gloves with Dyneema® in the right way and to assure that gloves with Dyneema® are used for the right activities. Next to that we update them regularly on new developments and product introductions. Through this you make sure that you have the right gloves in place.
- **SECURITY OF SUPPLY:** Due to the high and growing demand for Dyneema® it might occur that your current supplier runs short of gloves or is forced to delay shipment. Our Licensees benefit from a preferential treatment when it comes to security of supply. By shortening lead times and close contacts we make sure that gloves with Dyneema® with the labels are available in time.

### LICENSEES

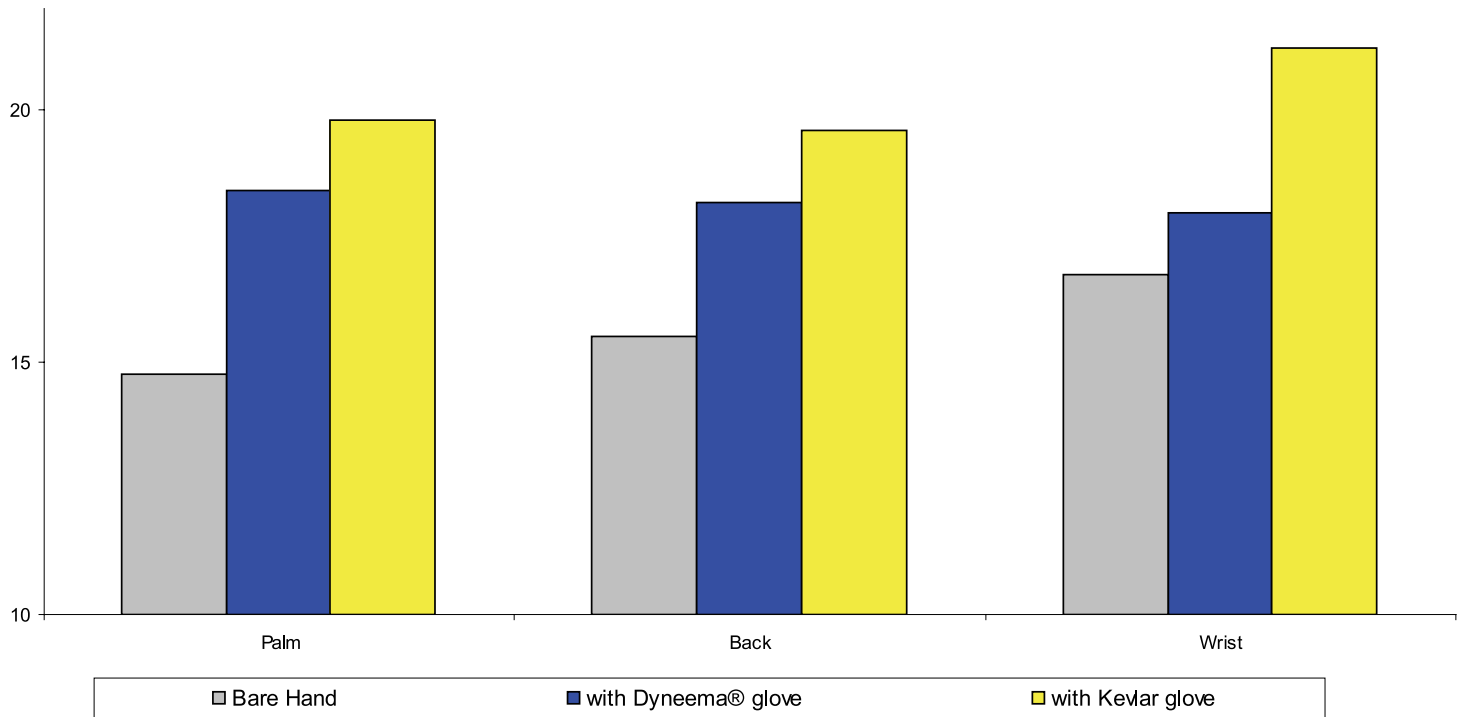
Visit our website, [www.thesofterstrength.com](http://www.thesofterstrength.com) for an overview of Licensees of Dyneema®. By purchasing your gloves through our partners you make sure that you get high quality gloves with Dyneema® that have been tested by DSM Dyneema. You can easily recognize these gloves by the label with the diamond shaped logo.



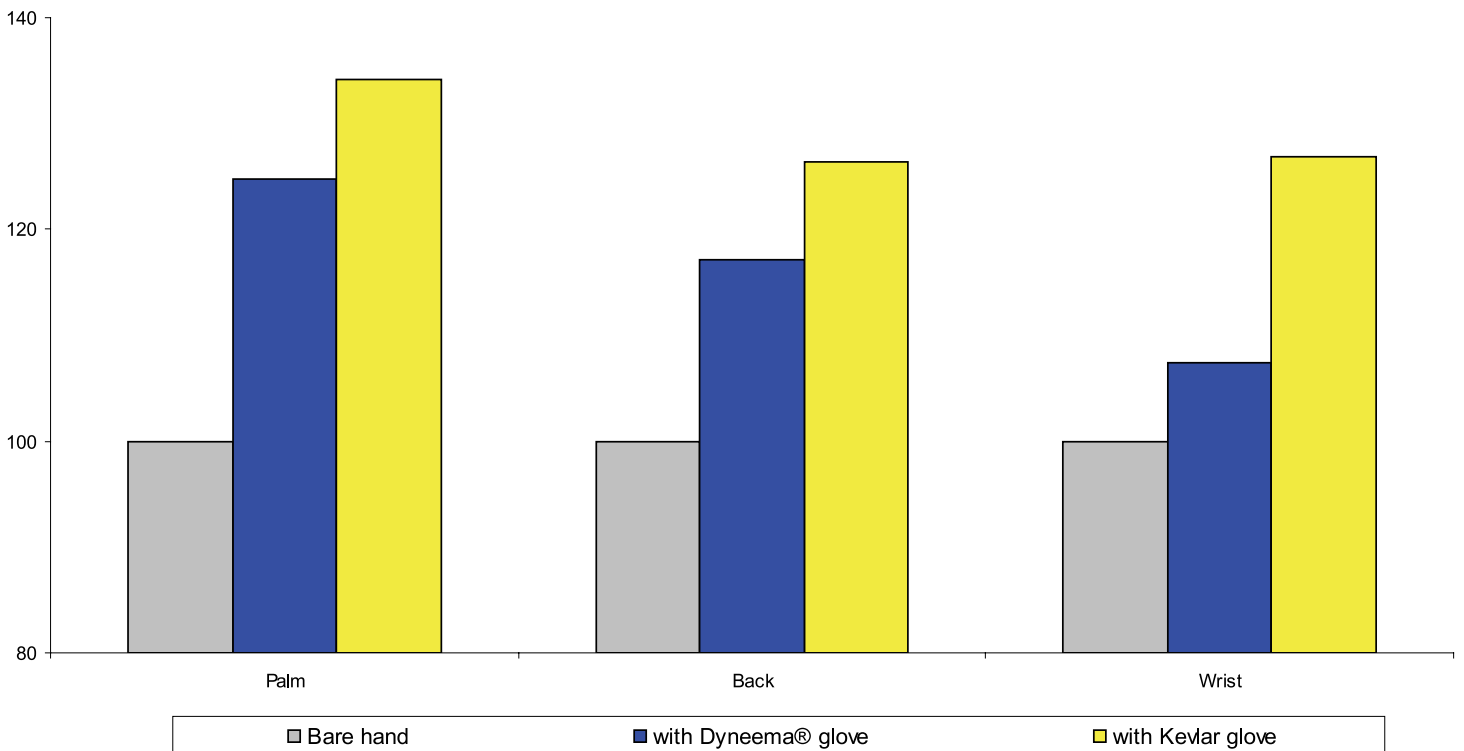
# Comfort...Heat Management



**Dyneema®** *Keeps You Cooler!*



**Absolute Temperature difference between hand and environment (Celsius)**  
*(Environment of 20°C / 65% humidity)*



**Relative Temperature differences**

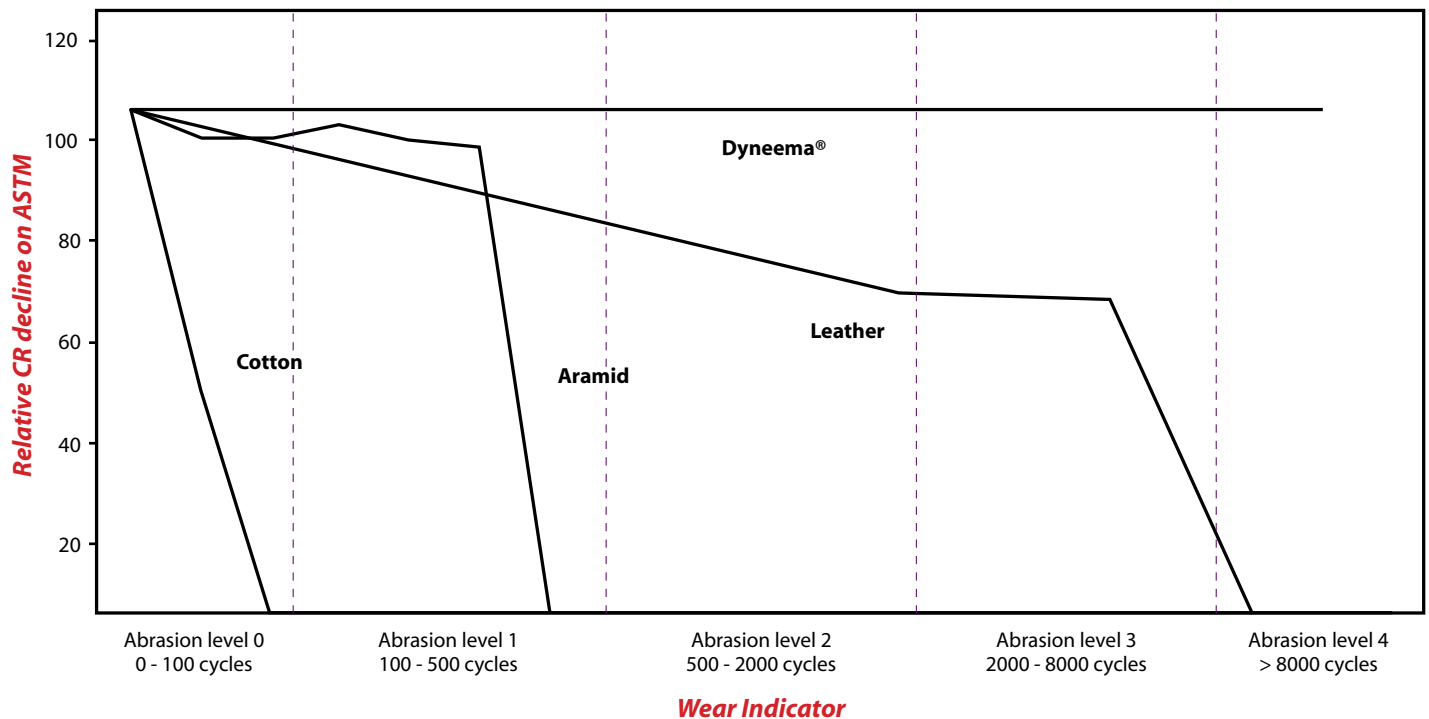
## Success Story **A customer's response after testing our style 19-D655 for use in grinding operations:**

"Each of our operators performs the grinding operation for 10 - 12 hours per day, 5 days per week. In testing the Dyneema® gloves we have had great success without the operators having to change gloves all the time. They were able to get approximately 5 weeks from the 19-D655 before there was any significant wear on the glove. Prior to using the 19-D655, one operator would use 100 pairs of leather palms in 5 weeks! These gloves are very well liked here!"








## Dyneema® Correlation Cut-Abrasion

Relative protection level decline in relation to abrasion resistance





Heavy-duty performance for the long haul: compared to gloves made with other materials, those made with Dyneema® clearly protect longer, thanks to exceptional abrasion resistance.

## Seamless Knit Dyneema® Selection Guide

Coating category	Style #	Glove type	Strengths	Weaknesses	Suggested applications
Uncoated Dyneema® Gloves 	17-D200 EN Cut Level 3	100% Dyneema®, 13 Gauge, Light Weight	Cool to wear, washable, offers 4 times the abrasion resistance as aramid fibers	Uncoated Dyneema® gloves are slick to wear and do not offer good grip, limited heat protection	<ul style="list-style-type: none"> <li>•Excellent as work glove liners</li> <li>•food preparation</li> <li>•food processing</li> </ul>
	17-D300 EN Cut Level 3	100% Dyneema®, 13 Gauge, Medium Weight			
	17-D350 EN Cut Level 4	100% Dyneema®, 13 Gauge Heavy Weight			
	17-DL200 EN Cut Level 3	Dyneema®/Lycra® Blend, 13 Gauge, Light Weight	Cool to wear, washable, blended with Lycra® to provide a more form fitting glove		
	17-DL300 EN Cut Level 4	Dyneema®/Lycra® Blend, 13 Gauge, Medium Weight			
Filament Dyneema® Sleeves  20-D10 - 20-D20 are all EN Cut Level 3	20-D10	100% Dyneema® Sleeve, 10" Length	Cool to wear, washable, offers 4 times the abrasion resistance as aramid fibers	Limited heat protection	<ul style="list-style-type: none"> <li>•Offers arm cut protection for applications that require large object handling, perfect for reach application protection</li> <li>•Food processing</li> <li>•Electronics manufacturing</li> <li>•Glass cutting</li> <li>•Meat &amp; poultry processing</li> <li>•Paper processing</li> </ul>
	20-D12	100% Dyneema® Sleeve, 12" Length			
	20-D16	100% Dyneema® Sleeve, 16" Length			
	20-D18	100% Dyneema® Sleeve, 18" Length			
	20-D20	100% Dyneema® Sleeve, 20" Length			
Spun Dyneema® Sleeves 	20-SD14 EN Cut Level 3	100% Spun Dyneema® Sleeve, 14" Length	Washable, bleachable, much softer and cooler than filament Dyneema® and Kevlar® sleeves with 10x more abrasion resistance; gray Dyneema® hides dirt	Limited heat protection	<ul style="list-style-type: none"> <li>•Replaces scratchy and hot Kevlar® sleeves</li> <li>•Food processing</li> <li>•Electronics manufacturing</li> <li>•Glass cutting</li> <li>•Meat &amp; poultry processing</li> <li>•Paper processing</li> </ul>
	20-SD16 EN Cut Level 3	100% Spun Dyneema® Sleeve, 16" Length			
	20-SD18 EN Cut Level 3	100% Spun Dyneema® Sleeve, 18" Length			
Gray Tube Spun Dyneema® Sleeves 	20-TG14 EN Cut Level 3	100% Spun Gray Dyneema® Sleeve, 14" Length, Tube Construction	Washable, much softer and cooler than filament Dyneema® and Kevlar® sleeves with 10x more abrasion resistance; tube style form fits to the arm, gray color hides dirt and grime	Limited heat protection	<ul style="list-style-type: none"> <li>•Replaces scratchy and hot Kevlar® sleeves</li> <li>•Food processing</li> <li>•Electronics manufacturing</li> <li>•Glass cutting</li> <li>•Meat &amp; poultry processing</li> <li>•Paper processing</li> </ul>
	20-TG16 EN Cut Level 3	100% Spun Gray Dyneema® Sleeve, 16" Length, Tube Construction			
	20-TG18 EN Cut Level 3	100% Spun Gray Dyneema® Sleeve, 18" Length, Tube Construction			
Solid Nitrile Coated Gloves 	19-D750 EN Cut Level 3	13 Gauge Black/Gray Dyneema® Spun Shell, Solid Black Nitrile Palm and Finger Tip Coated	Great dry grip; excellent tactility and comfort; good abrasion resistance ; gray Dyneema® hides dirt	Poor wet grip; medium cut resistance; low heat resistance	<ul style="list-style-type: none"> <li>•Handling dry small parts/assembly</li> <li>•Warehousing</li> <li>•Corrugated material handling</li> <li>•General light duty</li> </ul>



## Seamless Knit Dyneema® Selection Guide

Coating category	Style #	Glove type	Strengths	Weaknesses	Suggested applications
Foam Nitrile Coated Gloves 	19-D855 EN Cut Level 3	13 Gauge Salt & Pepper Spun Dyneema® Yarn Knitted Shell, Black Foam Nitrile Palm and <b>Knuckle Coated</b>	Good dry grip; very good oily grip; better abrasion than PU; resists petroleum products; silicon free; good launderability; great alternative to leather; gray Dyneema® hides dirt	Liquid eventually channels through coating; low heat resistance	<ul style="list-style-type: none"> <li>• Handling wet or dry small parts/ assembly</li> <li>• Auto assembly</li> <li>• Replace low end leather palms &amp; drivers</li> <li>• Warehousing</li> <li>• General light/medium duty tasks</li> </ul>
	19-D475 EN Cut Level 5	Maxigard Premium Gray Dyneema® Shell, Gray Foam Nitrile Palm and <b>Knuckle Coated</b>			
	19-D470 EN Cut Level 5	Maxigard Premium Gray Dyneema® Shell, Gray Foam Nitrile Palm and Finger Tip Coated			
	19-D434 EN Cut Level 3	13 Gauge Salt & Pepper Spun Dyneema® Yarn Knitted Shell, Black Foam Nitrile Palm and Finger Tip Coated			
	18-570 EN Cut Level 3	Zormax Premium Gray Engineered Yarn Shell, Gray Micro Foam Nitrile Palm and Finger Tip Coated,			
Urethane Coated Gloves 	19-D622 EN Cut Level 3	Great White, 13 Gauge, Lightweight Dyneema® Shell, Gray PU Palm and Finger Tip Coated	Superior lightweight fit & feel; excellent dexterity; good dry grip, very durable; gray Dyneema® hides dirt	Medium cut resistance; poor oily grip; petroleum will cause delamination; liquid immediately penetrates the coating	<ul style="list-style-type: none"> <li>• Handling wet or dry small parts/ assembly</li> <li>• Auto assembly</li> <li>• Replace low end leather palms &amp; drivers</li> <li>• Grinding applications</li> </ul>
	19-D625 EN Cut Level 3	13 Gauge White Dyneema®/Lycra® / Nylon, White PU Palm and Finger Tip Coated			
	19-D650 EN Cut Level 3	13 Gauge Gray Spun Dyneema® Yarn Knitted Shell/Nylon/Lycra®, Gray PU Palm and Finger Tip Coated			
	19-D655 EN Cut Level 3	13 Gauge Black/Gray Dyneema® Spun Shell, Palm and <b>Knuckle Coated</b> Black PU			
Latex Coated Gloves 	19-D660 EN Cut Level 3	Gray Dyneema® Nylon Plaited, Gray PU Palm and Finger Tip Coated			
	19-D813 EN Cut Level 5	13 Gauge White Dyneema® Yarn Knitted Shell, Blue Natural Rubber Latex, Palm and Finger Tip Coated, Crinkle Finish	Very good abrasion, cut, tear & puncture; flexible coating; good dexterity; excellent dry grip, excellent grip on glass	Coating gets gummy when in contact with petroleum products; low heat resistance; warm to wear in hot weather	<ul style="list-style-type: none"> <li>• Medium duty; good with brick, lumber, steel; excellent replacement for all leather styles</li> <li>• Warehousing</li> <li>• Construction</li> <li>• Glass handling</li> <li>• Extruded plastic</li> </ul>
	19-D815 EN Cut Level 2	15 Gauge White Dyneema® Yarn Knitted Shell, Blue Natural Rubber Latex, Palm and Finger Tip Coated, Crinkle Finish			

# Gloves and Sleeves with Dyneema®



17-D300



## 100% Dyneema® Gloves and Sleeves

Styles are available in light, medium or heavy weight to meet your application needs. PIP offers Kut-Gard® 100% Dyneema® gloves in 7 or 13 gauge. All of PIP's 100% Dyneema® sleeves are single-ply, 10 gauge. They are available in five lengths from 10" to 20".

### Gloves

Style No.	Description	Sizes
17-D200	13 Gauge, Light Weight	XS - XL
17-D300	7 Gauge, Medium Weight	XS - XL
17-D350	7 Gauge, Heavy Weight	XS - XL

17-D200 & 17-D300 EN Cut Level 3, 17-D350 EN Cut Level 4

### Sleeves

Style No.	Length
20-D10	10"
20-D12	12"
20-D16	16"
20-D18	18"
20-D20	20"

20-D10 - 20-D200 EN Cut Level 3



20-D20

## Spun Dyneema® Gloves and Sleeves

Spun Dyneema® gloves and sleeves offer unparalleled comfort and coolness while providing cut and abrasion resistance. White Dyneema® sleeves are single-ply, 10 gauge and have elastic on both ends for superior fit. **PIP now offers the first gray Dyneema® sleeves in the industry, great for hiding dirt.** These sleeves are double-ply with nylon. Sleeves are available in multiple lengths.

### Gloves

Style No.	Description	Sizes
17-SD200	Seamless Knit Spun Dyneema®, 13 Gauge, Light Weight	XS - XL
17-SD300	Seamless Knit Spun Dyneema®, 7 Gauge, Medium Weight	XS - XL
17-SD350	Seamless Knit Spun Dyneema®, 7 Gauge, Heavy Weight	XS - XL
17-SD325	Seamless Knit Spun Dyneema®/Nylon and Nuaramid®, Elastic Cuff (Patent Pending), 7 Gauge, Medium Weight, White, 17-SDG325 Gray	XS - XL

17-SD200 is Cut Level 2, 17-SD300, 17-SD350 and 17-SD325 are EN Cut Level 3

### White Sleeves

Style No.	Length
20-SD14	14"
20-SD16	16"
20-SD18	18"

### Gray Sleeves

Style No.	Length
20-TG14	14"
20-TG16	16"
20-TG18	18"

All Sleeves are EN Cut Level 3



17-SD325



20-TG14



17-DL300



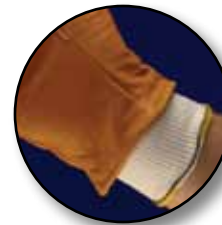
## Dyneema® and Lycra® Blended Gloves

These styles are blended with Lycra® to provide a better fit. Available in light or medium weight, 7 or 13 gauge.

Style No.	Description	Sizes
17-DL200	13 Gauge, Light Weight	XS - XL
17-DL300	7 Gauge, Medium Weight	XS - XL

17-DL200 EN Cut Level 3, 17-DL300 EN Cut Level 4

**Dyneema® is the world's strongest fiber (15 times stronger than steel on a weight for weight basis!) It's a High Performance Polyethylene (HPPE) fiber made from Ultra-High Molecular Weight Polyethylene (UHMWPE). Dyneema® fiber is much thinner and more flexible than traditional materials, such as leather and cotton, while offering higher protection.**



Light weight styles make great glove liners!



All styles listed on this page are made from component materials which comply with Federal regulations for food contact. 21CFR 170-199

Gloves and sleeves with Dyneema® are cool to wear in warm conditions and are not "scratchy" to wear like Kevlar®. Our light weight uncoated gloves with Dyneema® are excellent for use as glove liners. All styles are washable, improving their longevity. Seamless knit construction provides comfort without sacrificing dexterity. Color coded hems provide easy size identification. Coated styles are resistant to chemicals, water and ultraviolet light.

All styles listed on this page can be used in a broad range of applications including electronics, glass cutting, metal handling, food processing and meat processing.



## Solid Nitrile Coated Gloves

Gray spun Dyneema® and nylon with gray nitrile coated palm and finger tips for an excellent grip. These gloves offer extended wear and superior snag and puncture resistance.

Style No.	Description	Sizes
19-D750	Gray Spun Dyneema® and Nylon, Gray Nitrile Coated Palm and Finger Tips, 13 Gauge, Medium Weight	S - XL

19-D750 EN Cut Level 3



19-D750

## Foam Nitrile Coated Gloves

PIP offers styles that combine Dyneema® with engineered yarns or with nylon. Available with coated palm, coated palm and knuckles or coated palm and finger tips. Foam nitrile provides an excellent grip in oily applications.

Style No.	Description	Sizes
19-D470	ATG MaxiGard, Dyneema® with Engineered Yarns, Heavy Weight, Coated Palm	S - XL
19-D475	ATG MaxiGard, Dyneema® with Engineered Yarns, Heavy Weight, Coated Palm and Knuckles	S - XL
19-D434	Salt and Pepper Dyneema® Yarn Knitted Shell and Nylon, Black Coated Palm and Finger Tips	S - XL
19-D855	Salt and Pepper Dyneema® Yarn Knitted Shell and Nylon, Black Coated Palm and Knuckles	S - XL
18-570	Zormax™ Premium Gray Micro Foam Nitrile Coated Palm, Gray Engineered Yarn Shell	S - XL

19-D470 and 19-D475 EN Cut Level 5, 19-D434, 19-D855 and 18-570 are EN Cut Level 3



19-D470



19-D813



## Latex Coated Gloves

White Dyneema® with blue crinkle finish coated palm and finger tips. Latex provides great grip in dry applications.

Style No.	Description	Sizes
19-D813	White Dyneema® with Blue Coated Palm and Finger Tips, Crinkle Finish, Medium Weight, 13 Gauge	S - XL
19-D815	White Dyneema® with Blue Coated Palm and Finger Tips, Crinkle Finish, Light Weight, 15 Gauge	S - XL

19-D813 EN Cut Level 5, 19-D815 EN Cut Level 2

**WARNING:** Styles 19-D813 and 19-D815 contain natural rubber latex which may cause allergic reactions. Safe use by or on latex-sensitive individuals has not been established.



## Polyurethane Coated Gloves

Spun Dyneema®, Dyneema® with Lycra® or nylon plated styles available. Available with coated palm and knuckles or coated palm and finger tips, light or medium weight. These styles offer superior puncture and abrasion resistance. **Back by popular demand, style 19-D150 offers cost-effective protection in auto assembly and engine repair applications.**

Style No.	Description	Sizes
19-D150	Salt and Pepper Dyneema® Yarn Knitted Shell and Nylon, Gray Coated Palm Finger Tips, Light Weight	S - XL
19-D622	White Spun Dyneema® and Lycra®, Coated Palm and Finger Tips, Light Weight, Gray Coating	S - XL
19-D625	Same as 19-D622 Except White Coating	S - XXL
19-D650	Gray Spun Dyneema® and Nylon, Gray Coated Palm and Finger Tips, Medium Weight	S - XXL
19-D655	Gray Spun Dyneema® and Nylon, Black Coated Palm and Knuckles, Medium Weight	S - XL
19-D660	Salt and Pepper Dyneema® Yarn Knitted Shell, Nylon Plated, Gray Coated Palm and Finger Tips, Light Weight	S - XL

All these styles are EN Cut Level 3



19-D660

# Gloves with Dyneema®



PIP Proudly introduces the **GREAT WHITE™** Dyneema® Seamless Knit Liner with a Gray Polyurethane Palm Coating - **CPPT - 501 Grams\***

19-D622 Knit with Lycra® and Genuine DSM Dyneema®, GREAT WHITE™ gloves offer unprecedented comfort and dexterity. These durable cut resistant gloves are cost effective and are ideal for general duty and assembly operations. The specialized polyurethane palm coating provides a good grip in oily, wet or dry applications. Dyneema® gloves are designed to be launderable to maximize their life. The abrasion resistance offered by Dyneema® greatly outlasts traditional leather, cotton, and aramid fiber gloves. Available in sizes S - XL.

Used for electronics, glass cutting, sheet metal handling, general duty, parts assembly and construction.

19-SD385L EN Cut Level 3

\*CPPT Score of 501 grams refers to the ASTM F1790-04 Level Score the GREAT WHITE™ achieved.



**Don't get bitten at work... always wear your GREAT WHITE™ GLOVES**

## KUT-GARD®

### Slabbers Gloves with Dyneema®

These gloves raise the standards for high performance gloves offering a dynamic increase in overall performance and value compared to traditional para-aramid gloves. Exceptional dexterity and comfort along with superior washability. Superior abrasion and fatigue resistance compared to traditional para-aramid. Superior ultraviolet resistance. Will not discolor or lose strength when exposed to sun or fluorescent light. Used for sheet metal fabrication, glass handling, canning, recycling, assembly, plastic molding, metal fabrication, pulp and paper processing and metal stamping.

PIP also offers a Kevlar® slabbers glove. Contact your PIP Representative for information.

Style No.	Description	Size
18-SD385L	Kut-Gard® Dyneema®/Steel Blend, Heavy Weight, Two Side Special Dot Pattern	Large

19-SD385L EN Cut Level 5



### Dyneema® Laundering Information

Technical properties of Dyneema® are not affected when exposed to strong acids or bases. This means that Dyneema® can be:

- Dry cleaned
- Washed with commonly used industrial detergent, or washing powder
- Bleached (sodium hypochlorite)

without affecting the technical performances of the Dyneema® fiber.

Products containing Dyneema® should be treated with care if high temperatures are involved. The melting point of Dyneema® is between 144-152° C /290-306° F. For conventional laundering and treatments applied in textile industry this should not pose a problem. However, we recommend to keep the temperature during the process below 90°C/194°F. Dependent on the duration of the process and temperature involved, slightly higher temperatures can be applied.



## What is Kevlar®?

Kevlar® is an organic fiber in the aromatic polyamide (Aramid) family. The chemical structure of para-Aramid distinguishes them from other commercial man-made and natural fibers and gives Kevlar® its unique properties. It has high strength, high modulus (stiffness), toughness and thermal stability. In addition, it is resistant to many of the chemicals and solvents encountered in today's industrial environment. This combination of properties makes it an exceptional fiber for use in tire reinforcement, ballistics applications, ropes and cables, and in protective apparel where high strength, and thermal, puncture, and cut resistance are required. Its value for use in gloves and sleeves has been demonstrated repeatedly in many industrial applications.



# Kevlar® Gloves and Sleeves

# Kevlar® Gloves

## KUT-GARD® Uncoated Gloves



100% Kevlar® or with cotton inside (plated) for an economical alternative to 100% Kevlar®. Styles with extended cuffs or reinforced thumb crotches are available for added protection. Light, medium and heavy weight styles available to meet your application needs. Available in 7 or 13 gauge, full or half-finger styles. **Great for the automotive industry, light heat applications, glass operations and metal stamping.**

Style No.	Description	Sizes
07-K200	100% Kevlar®, 13 Gauge, Light Weight	XS - XXL
07-K259	100% Kevlar®, Half Finger, 7 Gauge, Medium Weight	S - XL
07-K300	100% Kevlar®, 7 Gauge, Heavy Weight	XS - XL
07-K350	100% Kevlar®, 7 Gauge, Heavy Weight	XS - XL
07-K320	Kevlar®, Cotton Plated, 7 Gauge, Medium Weight	S - XL

07-K200 and 07-K320 EN Cut Level 2  
 07-K300 EN Cut Level 3  
 07-K350 EN Cut Level 4



## KUT-GARD® Gloves with PVC Grips



PVC dots provide enhanced grip and extra cut and abrasion resistance. Available with palm coating, single side dotted or with both sides dotted. 100% Kevlar® or with cotton inside (plated) for an economical alternative to 100% Kevlar®. Styles with extended cuffs are available for added protection. Light, medium and heavy weight styles available to meet your application needs. Available in 7 or 13 gauge, full or half-finger styles. **Used in glass handling, canning and bottling, sheet metal handling, recycling and automotive applications.**

Style No.	Description	Sizes
08-K200PD	100% Kevlar®, 13 Gauge, Light Weight, Dots One Side	S - XL
08-K200PDD	100% Kevlar®, 13 Gauge, Light Weight, Dots Two Sides	S - XL
08-K259PDD	100% Kevlar®, Half Finger, 7 Gauge, Medium Weight, Dots Two Sides	S - XL
08-K300PD	100% Kevlar®, 7 Gauge, Medium Weight, Dots One Side	S - XL
08-K300PDD	100% Kevlar®, 7 Gauge, Medium Weight, Dots Two Sides	XS - XL
08-K300PS	100% Kevlar®, 7 Gauge, Medium Weight, Tiger Paw Grip Palm Coat	S - XL
08-K350PDD	100% Kevlar®, 7 Gauge, Heavy Weight, Dots Two Sides	S - XL
08-K252	Kevlar®, Cotton Plated, 7 Gauge, Medium Weight, Dots Two Sides	S - XL

08-K252 EN Cut Level 2  
 08-K200PD, 08-K200PDD, 08-K259PDD, 08-K300PDD, 08-K300PS EN Cut Level 3  
 08-K350PDD EN Cut Level 5

### Why Kevlar®?

Extraordinarily strong, light and cut-resistant, Dupont™ Kevlar® brand fiber is highly resistant to cuts, abrasion, and high temperatures. Cut and high temperature resistant protective apparel made of Kevlar® brand fiber helps prevent injuries and lost-time hours, with the attendant losses in productivity. The light weight, flexibility and comfort of Kevlar® enables workers to maintain a high level of dexterity and effectiveness. The strength and durability of Kevlar® can save employers money in the replacement cycle, as gloves made of Kevlar® can significantly outlast other materials.



58-8658K

## PVC with Kevlar® Liner

XtraTuff™ styles are oil and liquid-resistant, staying soft and strong even after exposure to machine oils. Rough coated palm provides a great grip. Seamless Kevlar® liner provides cut resistance, excellent tactile sensitivity and is treated to resist germs and odors. **Great for applications where machine oil is present and for applications that require a combination of liquid and cut protection.**

Style No.	Description	Sizes
58-8658K	XtraTuff™, PVC Fully Coated Glove with 13 Gauge Seamless Kevlar® Liner	L & XL

58-8658K EN Cut Level 3

09-K1300



## Gloves with Crinkle Finish Latex Grips

Crinkle finish provides excellent wet and dry grip. These gloves are 100% Kevlar®, medium weight. Available in premium and quality grades, 7 or 10 gauge. **Ideal for material handling, glass handling operations, fishing industries, sanitation, general maintenance, woodworking, waste handling and recycling.**

Style No.	Description	Sizes
09-K1300	G-Tek® K-Force, 100% Kevlar®, Premium Grade, 7 Gauge, Medium Weight	S - XXL
09-K1310	Kut-Gard®, 100% Kevlar®, Quality Grade, 10 Gauge, Medium Weight	S - XL

09-K1300 and 09-K1310 EN Cut Level 3

**WARNING:** Styles 09-K1300 and 09-K1310 contain natural rubber latex which may cause allergic reactions. Safe use by or on latex-sensitive individuals has not been established.

**Why Kevlar®? Because Kevlar® provides the total combination: protection, comfort and safety.**

### Protection

- Excellent cut and thermal resistance
- Abrasion protection
- The particular protection offered by Kevlar® is an integral and permanent part of the fiber composition. Kevlar® maintains its protective qualities for the life of the personal protective equipment.

### Comfort

- Manual dexterity
- Tactile perception and control
- Flexibility
- Thermal insulation
- Lightweight

### Safety

- High-performance solution
- Contributes to a healthier, safer, more productive and more comfortable working environment

# Kevlar® Gloves and Sleeves

## Gloves with Specialty Grips

Light, medium and heavy weight styles available to meet your application needs. Available in 7 or 13 gauge. A variety of styles available including 100% Kevlar® or Kevlar® with Lycra®, gloves with nitrile grips or leather palms and goatskin driver's gloves with Kevlar® liners. Gloves available with heavy solid nitrile coating for superior abrasion and puncture resistance or with porous nitrile foam coating for superior grip in oily applications. MicroFinish® styles available for superior grip in wet, dry and oily applications. **Used for material handling, glass handling operations, fishing industries, sanitation, general maintenance, woodworking, waste handling and recycling.**

Style No.	Description	Sizes
09-K1400	G-Tek® CR, 100% Kevlar®, Solid Nitrile, Smooth Grip, 10 Gauge, Medium Weight	S - XL
09-K1450	Kut-Gard®, Kevlar® and Lycra®, Solid Nitrile, Smooth Grip, 13 Gauge, Light Weight	XS - XXL
09-K1444	PowerGrab KEV4, 100% Kevlar®, Dark Blue Latex, MicroFinish®, Premium Grade, 10 Gauge, Medium Weight	S - XXL
09-K1650	ActivGrip™ Advance KEV, Nitrile, MicroFinish®, 13 Gauge	S - XXL
09-K300LP	Kut-Gard®, 100% Kevlar®, Leather Palm, 7 Gauge, Medium Weight	S - XL
09-K350LP	Kut-Gard®, 100% Kevlar®, Leather Palm, 7 Gauge, Heavy Weight	S - XL
09-K3700	Kut-Gard®, Goatskin Driver, Straight Thumb, Kevlar® Liner, 13 Gauge, Light Weight	S - XXXL

09-K1450 EN Cut Level 2, 09-K1400, 09-K1650, 09-K3700 EN Cut Level 3  
09-K1444, 09-K300LP, 09-K350LP EN Cut Level 4



09-K1444



09-K3700



09-K350LP

**WARNING:** Style 09-K1444 contains natural rubber latex which may cause allergic reactions. Safe use by or on latex-sensitive individuals has not been established.

### Why Kevlar®? Because Kevlar® Has the Power of Performance.

Kevlar® Power of Performance means light, comfortable and enduring protection against cuts, lacerations and abrasions. Protective gloves and sleeves bearing this brand name come with a guarantee of conformity to strict performance and quality standards, and are produced only by Kevlar® licensed manufacturers.

Kevlar® protective equipment is highly resistant to external influences, possesses excellent properties in the presence of heat, has low thermal conductivity and is very robust even when subjected to intensive use. Kevlar® technology provides built-in protection in the fiber, which is not adversely affected by repeated washing or long-term use.

Kevlar® protective equipment enables its users to work safely. After subjecting Kevlar® to thorough tests simulating extreme situations, PIP has designed a range of products satisfying a wide spectrum of safety and protection requirements.





## Sleeves

100% Kevlar® sleeves provide excellent cut protection for the wrists and arms. Available in single-ply for economy or double-ply for added protection. Style 10-KS14TOLP has a leather protective patch for added heat protection. Blousy sleeve style offers loose fit to reduce fatigue. Cotton inner ply style offers added comfort. **Used for advanced manufacturing, glass operations, metal stamping, sheet metal, automotive, electrical and light heat applications.** All PIP Sleeves made in the USA are available with optional Thumb Holes (TO), Finger Tacks (F) and Thumb Tacks (TT).

Style No.	Description	Length
10-KS14S	100% Kevlar®, Single-Ply	14"
10-KS18S	100% Kevlar®, Single-Ply	18"
10-KS18THV	100% Kevlar®, Single-Ply, Thumbhole, Adjustable Velcro® Closure on Flared Forearm	18"
10-KS10	100% Kevlar®, Double-Ply	10"
10-KS12	100% Kevlar®, Double-Ply	12"
10-KS14	100% Kevlar®, Double-Ply	14"
10-KS14TOLP	100% Kevlar®, Double-Ply, Leather Patch	14"
10-KS18	100% Kevlar®, Double-Ply	18"
10-KS24	100% Kevlar®, Double-Ply	24"
10-KS14CL	Kevlar® with Cotton Inner Layer, Double-Ply	14"
10-KS18CL	Kevlar® with Cotton Inner Layer, Double-Ply	18"
10-KSB18	100% Kevlar®, Blousy Sleeve, Double-Ply	18"

10-KS14S, 10-KS18S, 10-KS18THV, 10-KS14CL, 10-KS18CL and 10-KSB18 EN Cut Level 3  
 10-KS10, 10-KS12, 10-KS14, 10-KS14TOLP, 10-KS18 and 10-KS24 EN Cut Level 4

## Fabric Sleeves for Cut and Heat Protection

These light weight and breathable sleeves are shrink resistant and offer exceptional comfort. Styles 10-4626 and 10-4622 offer excellent thermal and flame protection from the high heat and open flame of welding torches. Styles 10-4826 and 10-4822 offer cut resistance for medium duty applications. Styles 10-4726, 10-4722, 10-4626 and 10-4622 offer cut resistance for light duty applications.

**Styles 10-4826, 10-4822, 10-4726 and 10-4722 are ideal for assembly, plastic molding, metal fabrication and automotive applications while styles 10-4626 and 10-4622 are ideal for welding for automotive, aerospace and metal fabrication.**

Style No.	Description
10-4726	Interlock Aramid/Cotton with Kevlar® Knitwrist, Thumb Hole, Blue/Gold Elastic End, 19" Length, Total 26" Length
10-4722	Interlock Aramid/Cotton with Kevlar® Knitwrist, Thumb Hole, Blue/Gold Elastic End, 15" Length, Total 22" Length
10-4826	100% Aramid with 5" Kevlar® Knitwrist, Thumb Hole, Blue/Gold Elastic End, 19" Length, Total 26" Length
10-4822	100% Aramid with 5" Kevlar® Knitwrist, Thumb Hole, Blue/Gold Elastic End, 15" Length, Total 22" Length
10-4626	7 oz. 60% FR Viscose/40% Kevlar® with Knitwrist, Thumb Hole, Blue/Gold Elastic End, 19" Length, Total 26" Length
10-4622	7 oz. 60% FR Viscose/40% Kevlar® with Knitwrist, Thumb Hole, Blue/Gold Elastic End, 15" Length, Total 22" Length

10-4726, 10-4722, 10-4626 and 10-4622 EN Cut Level 2  
 10-4826 and 10-4822 EN Cut Level 3



# Kevlar® Laundering Guide

The following information was taken from the DuPont Kevlar® Laundering Guide for Protective Apparel Made with Kevlar® Fiber.

## SUMMARY FOR CLEANING RECOMMENDATIONS

Laboratory and commercial cleaning experience has demonstrated that both dry cleaning and laundering are acceptable methods of cleaning 100% Kevlar® brand fiber cut and thermal protective apparel.

The type of soil, use of protective coatings or dots, cuff material, cost and other factors may dictate that one method be used vs. the other. Your glove supplier and glove cleaner should be consulted concerning your particular application and requirements.

The least harsh procedure in terms of chemicals, temperatures, and cycle length, for your particular application, should be used in order to maximize glove life.

The DuPont Kevlar® product information group will provide product and other technical information, as well as an up-to-date source list of professional glove cleaners. Call them at 1-800-4Kevlar

## CLEANING PROTECTIVE GLOVES MADE OF 100% Kevlar®

### CLEANING METHODS:

Commercial glove cleaning is done with front loading washer/extractors. Different solvents and chemicals may be used as well as temperatures, and cycle types and lengths. The two basic cleaning methods are dry cleaning and laundering. Dry cleaning uses either Stoddards solvent (mineral spirits, of which there are two types) or perchloroethylene. Dry cleaning cycles have limited variations in their operation. The main variations other than solvent. The cleanliness and surfactant content of the recovered solvent may impact the redeposition of soil onto the gloves during repeated cleanings. Laundering is done in similar equipment, but a variety of chemicals, alkalinities, temperatures, and cleaning and rinsing cycles may be used. Sourcing or neutralizing of any residual alkalinity after laundering is generally used to prevent skin irritation during glove use.

Whether dry cleaning or laundering is chosen should be determined by the particular gloves being used. Certain rubbers or plastics applied to gloves may be sensitive to some dry cleaning solvents and may harden after repeated cleanings. Some elastic materials used in the glove cuffs may also harden and lose their elasticity with time. Selection of the correct dry cleaning or laundering process will increase the life of these gloves. Your glove supplier should be consulted to determine whether there are any special cleaning requirements for your particular gloves. Generally a dry cleaning or laundering procedure can be developed to remove most industrial soils. However, some gloves may become contaminated with epoxy, adhesives, paint, or other materials which cannot be removed in the standard cleaning process without creating excessive cleaning costs. A standard for cleanliness or contamination with these materials should be established.

Although Kevlar® brand fibers are resistant to many chemicals and solvents, chlorine bleach cannot be used in cleaning formulations for Kevlar®. The chlorine will cause a rapid degradation of the fiber. Chlorine bleach is not typically used for industrial cleaning of gloves since the removal of the heavy oily soils encountered in industrial end uses is not improved with its use.

Because of the wide variations in glove constructions including the use of coating materials, dots, and cuff materials, which may require special cleaning procedures, this bulletin has been directed at the impact of the cleaning procedure on the Kevlar® fabric only. Specific requirements for materials other than the Kevlar® fabric should be discussed with your supplier or professional cleaner.

### SCREENING TESTS TO EVALUATE CLEANING METHODS:

The long term effects of cleaning industrial gloves in actual work situations are impractical to assess because of the numerous combinations available in cleaning methods, levels of wear and cut exposure, and soils encountered. It is feasible however to study the effects of cleaning under controlled laboratory conditions. Laboratory screening tests using industrial cleaning procedures were conducted with heavily soiled industrial gloves. These identified conditions which resulted in acceptably clean gloves. From these tests a procedure representing each general industrial method of dry cleaning and laundering was selected for an extended study. New gloves were then processed through 30 cleaning cycles to identify the long term impact of the cleaning procedure on glove and fiber properties. The impact of the cleaning process on cut resistance, shrinkage, weight loss, fiber tensile strength, and color were used to evaluate the method's effectiveness. The impact of wear associated with normal industrial use or impact on coatings, dots, or other non Kevlar® materials was not studied in this test.

Gloves soiled in an industrial sheet metal assembly operation were used to develop the laundering and dry cleaning procedures. Because of the heavy oily soil level used for the screening test gloves, pre-wash/wash dry cleaning cycles using detergents were used for all dry cleaning procedures. This process resulted in equivalent soil removal and minimized soil carry-over. The Stoddard solvent cleaning cycles were conducted by industrial laundries using standard commercial cycles.



Laundering has more possible cycle and chemical variables than dry cleaning. Phosphates, solvents, alkalinity, and temperature were evaluated. The screening tests showed that phosphates, high temperature and alkalinity were very beneficial in removing the soil. Although solvents may aid in soil removal, no major improvement was seen in the screening test. For this test both a high and low alkalinity formula were evaluated. Supply levels were increased beyond those normally used to assess the impact of the chemicals. Wash temperature was maintained at 170°F. The number of wash and rinse cycles was adjusted to give equivalent soil removal and remove residual chemicals. Because of the high supply levels used, and with a double suds/carry-over cycle, extra rinsing followed by addition of a sour was required to remove the residual alkalinity. Milder conditions will have less impact on glove characteristics and would shorten the wash procedure and cost.

#### **LONG TERM EFFECT OF CLEANING CUT PROTECTION PERFORMANCE TEST (CPPT):**

A small decrease in cut resistance is seen over 30 cleaning cycles. After 5 cleaning cycles the high alkalinity laundering process produced slightly lower cut resistance than dry cleaning or the low alkalinity formula. The low alkalinity process is equivalent to dry cleaning. No differences were seen between the three dry cleaning solvents. Cut resistance for both dry cleaning and laundering were comparable.

#### **YARN TENSILE STRENGTH**

Yarn tensile strength is measured on yarn removed from the gloves after cleaning and is reported as tenacity in gms/denier (GPD). The tensile strength decreases gradually over the 30 cleaning cycles. Laundering lowers the tensile strength more rapidly than dry cleaning. No difference is seen between the high and lower alkalinity laundering formulas. Stoddards 105 solvent gives less tenacity reduction than the other cleaning solvents. Although the yarn tensile strength decreases with cleaning, cut resistance as previously discussed is not impacted. Even after 30 cleaning cycles, Figure 4 shows that the Kevlar® yarn is still much stronger than cotton gloves laundered by the low alkalinity procedure. Average results for dry cleaning and laundering are shown for clarity.

The lower yarn tenacity resulting with laundering is likely related to the longer cleaning cycles and the impact of the detergents, alkalinity, and much higher temperatures used as compared to the dry cleaning procedures. The laundering produces a lighter color glove after cleaning and shows more fiber fibrillation.

#### **GLOVE SHRINKAGE**

Glove shrinkage after drying is 2% or less over the 30 cleaning cycles for perchloroethylene dry cleaning and laundering and was due to the knit structure and was not actual fiber shrinkage. The glove expands back to its normal size when placed on the hand. No significant differences are seen between the high and low alkalinity laundering formulas or perchloroethylene dry cleaning. It is expected that gloves cleaned in Stoddards solvent would yield similar results.

#### **GLOVE WEIGHT LOSS**

Glove weight loss gradually increased over the 30 cleaning cycles tested. Laundering weight loss for the conditions used is higher than that for perchloroethylene dry cleaning. No difference is seen between the high and low alkalinity laundering formulas. Maximum weight loss was <3.6% after 30 cleaning and drying cycles for laundering and 1.3% for perchloroethylene dry cleaning. In comparison, cotton gloves laundered with the low alkalinity formula have weight losses of 3 to 5.5% over 30 cleaning cycles.

#### **GLOVE COLOR**

The laundry formulas tested produced gloves with a lighter color than the dry cleaning formulas. Some of the light appearance is related to fiber fibrillation and some to less redeposition of soil during the cleaning process due to several rinses to remove residual chemicals. Dry cleaning may cause a gradual darkening of the gloves over time although visible soil has been removed. In actual use, ground in soil in high wear areas such as the fingers and palms may cause some darkening. Dried paint, epoxy, adhesives, and other contaminants which normally cannot be removed by dry cleaning or laundering may also remain on the gloves after cleaning. It may not be economically feasible to attempt removal of these types of contaminants.

**MicroFinish® outperforms traditional foam coating!**

Comparison of Performance between 09-K1650 ActivGrip™ Advance KEV and the leading nitrile foam coated brand

	09-K1650 ActivGrip™ Advance KEV Size 9/L	Foam Coated CR Brand Size 9/L
	 <p><b>EN388 CUT LEVEL 3</b></p>	 <p><b>EN388 CUT LEVEL 2</b></p>
Length	260mm	230mm
Shell Weight	37g / pair (Avg.)	22g/pair (Avg.)
Coating	DOUBLE MicroFinish®	SINGLE Foam
Water Proof	Yes	N/A

**Longer Length**

09-K1650 ActivGrip™ Advance KEV has a longer wrist length that helps protect against mechanical risks more so than gloves with shorter wrists. Furthermore, ActivGrip™ Advance KEV's long wrist protects wearer from dirt, abrasion and especially CUT.

**Heavier Shell Weight**

Heavier and thicker shell provides superior protection against cuts. This glove lasts longer for great economic efficiency. The thick shell also produces SAFER working environments.

**MicroFinish® Double Coating**

Double dipped MicroFinish® coating provides remarkable comfort to the wearer compared to single foam coatings. MicroFinish® prevents wet hands, keeping the inside of the gloves dry and clean whereas single foam coatings let liquid penetrate the surface making the inside of the gloves wet and very slippery. Furthermore, double coating MicroFinish® keeps hands clean and requires fewer washings extending the life of the glove. See pictures below for the differences.

**Water/Oil Resistance**





# Gloves and Sleeves Made from Engineered Yarns

Made  
in the  
U.S.A. 

# Gloves and Sleeves Made from Engineered Yarns



Yarns constructed of flexible steel core strands offer exceptional cut and slash resistance. Seamless construction provides the comfort, fit and dexterity of a knit glove. Gloves feature multiple strands of stainless steel combined with high strength fibers and wrapped in polyester to ensure maximum protection. Gloves of steel fiber yarn are wrapped with Dyneema®, enhancing the Dyneema®'s performance without sacrificing flexibility and dexterity. Special non-latex cuff dramatically reduces cuff blow-out, even after multiple launderings in bleach. Meets FDA & USDA food handling requirements. **Ideal for any applications where sharp cutting instruments or materials are used. Common applications include food service applications, food processing, pulp and paper processing, plastic molding, glass and metal handling.**



## Uncoated Gloves

Style No.	Description	Sizes
22-710	Stainless Steel Fiber Yarn, Dyneema® with Polyester Cover, White, Medium Weight	XS - XL
22-690	Stainless Steel Fiber Yarn, Dyneema® with Polyester Cover, White, Heavy Weight	XS - XL
22-730	Stainless Steel Wire Core and Polyester, Light Weight, White	XS - XL
22-754	Stainless Steel Wire Core and Polyester, Light Weight, Gray	S - XL
22-720	Stainless Steel Wire Core and Polyester, Medium Weight, White	XS - XL
22-650	2 Strands Stainless Steel Wire Core and Polyester, Heavy Weight, Blue	XS - XL
22-780	3 Strands Stainless Steel Wire Core, Dyneema® with Polyester Cover, Heavy Weight, White	XS - XL

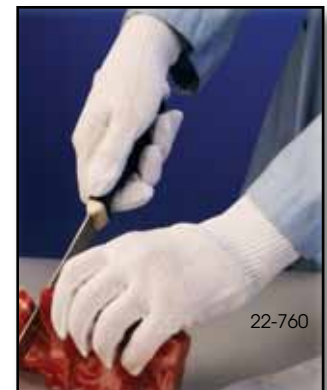
All of these glove styles are EN Cut Level 5

## Antimicrobial Gloves

Antimicrobial is Non-Toxic and Non-Corrosive and Complies with FDA, EPA, NSF and USDA Standards.

Style No.	Description	Sizes
22-750	Stainless Steel Fiber, Silica Fiber, Dyneema® with Polyester Cover, Light Weight, White	XS - XL
22-750G	Stainless Steel Fiber, Silica Fiber, Dyneema® with Polyester Cover, Light Weight, Gray	XS - XL
22-760	Stainless Steel Fiber, Silica Fiber, Dyneema® with Polyester Cover, Medium Weight, White	XS - XL
22-760G	Stainless Steel Fiber, Silica Fiber, Dyneema® with Polyester Cover, Medium Weight, Gray	XS - XL
22-600	3 Strands Stainless Steel Wire Core and Polyester, Heavy Weight, White	XS - XL
22-770	Silica Fiber, Dyneema® with Polyester Cover, Heavy Weight, White	XS - XL
22-900	Stainless Steel Fiber, Dyneema® with Polyester Cover, Medium Weight, Gray	XS - XL

All of these glove styles are EN Cut Level 5



## SilaGrip Coated Gloves

Superior gripping properties in both wet and dry environments. Excellent abrasion resistance for long service life. Food grade polymer meets FDA requirements for food contact and USDA food handling requirements. Excellent chemical resistance tolerating most solvents, proteins, fats and blood. UV stable. Will not degrade over time, giving the glove an unlimited shelf life. Can be laundered in detergents, bleach or can be dry cleaned. No restrictions on drying temperature. Superior safety. Non-toxic and non-latex polymer has no proteins, no accelerators and no urethanes. Broadest operating temperature of any coating available!

Style No.	Description	Sizes
22-601	3 Strands Stainless Steel Wire Core and Polyester, Heavy Weight, White, Full Finger	XS - XL
22-615	3 Strands Stainless Steel Wire Core and Polyester, Heavy Weight, White, Half Finger	XS - XL
22-751	Stainless Steel Fiber, Silica Fiber, Dyneema® with Polyester Cover, Light Weight, White	XS - XL
22-761	Stainless Steel Fiber, Dyneema® with Polyester Cover, Medium Weight, White	XS - XL
22-901	Stainless Steel Fiber, Dyneema® with Polyester Cover, Medium Weight, Gray	XS - XL

All of these glove styles are EN Cut Level 5

## Sleeves

These sleeves are made of stainless steel wire core and polyester. All styles are white, heavy weight.

All of these sleeve styles are EN Cut Level 5

Style No.	Length
25-612	12"
25-618	18"
25-621	21"





# Nuaramid<sup>®</sup> Gloves and Sleeves

# Nuaramid® Gloves and Sleeves



Nuaramid® is a proprietary aramid fiber yarn with advantages over other aramid yarns



Nuaramid® gloves have raised the standards for high performance gloves, offering a dynamic increase in the overall performance and value over traditional para-aramid gloves. Made from one of the strongest commercially available fibers, seven times stronger than steel of the same weight, Nuaramid gloves exhibit high tensile strength, cut resistance, excellent impact resistance, and superior abrasion resistance.

Nuaramid® gloves can be used in all of the same applications where other para-aramid\* gloves are used. **Nuaramid is recommended for industrial applications where added protection is required including but not limited to sheet metal, glass handling, canning, recycling, injection molding, metal fabrication, and metal stamping.**

## Nuaramid® Features

**Superior Chemical Resistance** Superior resistance to chemicals including acids, alkali and organic solvents. In addition, Nuaramid® gloves are stable against seawater, steam, and chlorine bleach.

**Good Abrasion & Fatigue Resistance** Four times greater than other para-aramid gloves.

**Superior Washability** Nuaramid® gloves can be washed repeatedly in Chlorine Bleach and caustic detergents to remove dirt, odor, grease, oil and bacteria without degradation, shrinkage or stiffening, therefore extending the life of the glove while retaining its full performance and feel. Tested to 25 washings with no degradation.

**High Tensile Strength** Seven times stronger than steel of the same weight.

**Cut Resistant** Cut resistance equal to or better than para-aramids.

**Flame Resistant** Excellent flame resistance, 100% Nuaramid® gloves meet OSHA CFR 1910.269 standards.

**Good Ultraviolet Resistance** Good Ultraviolet (UV) stability, will not discolor or lose strength when exposed to sun or fluorescent light.

## Nuaramid® Laundering Information

Machine wash with HOT water using detergent and bleach. Tumble dry on low heat. These glove can also be dry cleaned.



## Uncoated Gloves

These gloves are available in 100% Nuaramid® yarns or yarns blended with polyester for economy. Available in full-finger or half-finger styles. All styles are 7 gauge. **Used in automotive industry assembly operations, appliance manufacturing, glass operations (bottling, sheets), electrical work (electronics and electrical assembly), metal stamping, sheet metal, food processing, poultry and meat packing and recycling.**

Style No.	Description	Sizes
12-250	Nuaramid® and Polyester Blend, Heavy Weight	S - XL
12-260	Nuaramid® and Polyester Blend, Heavy Weight, Half Finger	S & L
12-280	Nuaramid®, Polyester and Steel Blend, Heavy Weight	S - XXL
14-289	Nuaramid®, Polyester and Steel Blend, Heavy Weight, Leather Palm	M - XXL
12-350	100% Nuaramid®, Medium Weight	S - XL
12-360	100% Nuaramid®, Medium Weight, Half Finger	S - XL
12-450	100% Nuaramid®, Heavy Weight	S - XL

12-350, 12-360 EN Cut Level 3  
 12-250, 12-260, 12-280, 12-450 EN Cut Level 4  
 14-289 EN Cut Level 5



## Gloves with PVC Grips

PVC provides enhanced grip and extra cut and abrasion resistance. These gloves are available in 100% Nuaramid® yarns or yarns blended with polyester for economy. Available in full-finger or half-finger styles. All styles are 7 gauge. **Used in glass handling, canning and bottling, sheet metal handling, recycling and automotive applications.**



Style No.	Description	Sizes
13-352B	Nuaramid® and Polyester Blend, Bricks 2 Sides, Heavy Weight	Large
13-262D	Nuaramid® and Polyester Blend, Half Finger, Dots 2 Sides, Heavy Weight	S - L
13-280	Nuaramid®, Polyester and Steel Blend, Bricks 2 Sides, Heavy Weight	S - XXL
13-351	100% Nuaramid®, Bricks 1 Side, Medium Weight	Large

13-352B, 13-351 EN Cut Level 3  
 13-262D, 13-280 EN Cut Level 4

## Gloves with Continuous Sleeves

Nuaramid® gloves with continuous sleeves provide hand and arm protection in one product!

Style No.	Description	Sizes
12-258	Nuaramid® and Polyester, 7 Gauge, Heavy Weight	Large
13-358B1	100% Nuaramid®, 7 Gauge, Medium Weight, Bricks 1 Side	Large
13-358B2	100% Nuaramid®, 7 Gauge, Medium Weight, Bricks 2 Sides	Large
13-358C1	100% Nuaramid®, 7 Gauge, Medium Weight, Palm Coat	Large

13-358B1



**Custom weights, sizes and coatings are available upon request**

# Cut Score Matrix

The results herein are obtained under controlled laboratory conditions and are for guidance only. It is the intent of Protective Industrial Products, Inc. (PIP) to assist the user in making the correct choice of personal protective equipment; however, since the conditions of actual use are beyond our control and PIP cannot evaluate cut resistance in all possible work environments, any recommendation made by PIP is advisory only. It is the responsibility of the user to determine the risk and make the appropriate choice for proper protection against such risk. PIP does not imply any guarantee or responsibility based on information herein that a particular product will suit a specific use.

NEITHER THIS GUIDE NOR ANY OTHER STATEMENT MADE HEREIN BY OR ON BEHALF OF PIP OR ANY OF ITS AFFILIATES SHOULD BE CONSTRUED AS A WARRANTY OF MERCHANTABILITY OR THAT ANY PIP PROTECTIVE GLOVE IS FIT FOR A PARTICULAR PURPOSE. PIP ASSUMES NO RESPONSIBILITY FOR THE SUITABILITY OR ADEQUACY OF AN END USER'S SELECTION OF A PRODUCT FOR A SPECIFIC APPLICATION.

EN388 Cut Score	← 0 → 1 → 2 → 3 → 4 → 5 → +																																				
	0	120	200	250	300	400	500	501	600	700	800	900	1000	1001	1100	1200	1300	1400	1500	1501	1750	2000	2250	2500	2750	3000	3250	3500	3501	4000	4250	4500	4750	5000	5250	5500	5750
ITEM	Method		ASTM Score	Date																																	
<b>KutGard Kevlar Gloves</b>	ASTM		360																																		
07-K320	ASTM		600																																		
07-K200	ASTM		600																																		
07-K259	ASTM		850																																		
07-K300	ASTM		850																																		
07-K350	ASTM		1211																																		
<b>KutGard Kevlar Gloves w/Dots</b>	ASTM		360																																		
08-K252	ASTM		600																																		
08-K200PD	ASTM		600																																		
08-K200PDD	ASTM		600																																		
08-K259PDD	ASTM		850																																		
08-K300PD	ASTM		850																																		
08-K350PDD	ASTM		1215																																		
08-K300PS	ASTM		813																																		
08-K385	ASTM		3612	J-08																																	
<b>Kevlar Gloves w/Palm Coating</b>	ASTM		1550																																		
09-K1300	ASTM		1262	S-06																																	
09-K1310	ASTM		927	J-08																																	
09-K1400	ASTM		1266	S-08																																	
09-K1450	EN388		717	S-08																																	
09-K1444	ASTM																																				
09-K1650	ASTM																																				
<b>Kevlar Lined Goatskin Driver</b>	ASTM		779	O-07																																	
09-K3700	ASTM		1631	D-05																																	
<b>KutGard Kevlar Gloves w/Lea. Palm</b>	ASTM																																				
09-K300LP	EN388																																				
09-K350LP	ASTM		1263	A-08																																	
<b>Kut-Gard Kevlar Sleeves - All lengths</b>	ASTM		1223	N-04																																	
10-KS	ASTM		871	N-04																																	
<b>KutGard Nuaramid Gloves</b>	ASTM		1353	N-04																																	
12-250	ASTM		1961	N-04																																	
12-350	ASTM		2300	N-05																																	
12-360	ASTM																																				
12-450	ASTM																																				
12-280	ASTM																																				
13-280	ASTM																																				
14-289	ASTM																																				





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