



# **THERMAL HIGH HEAT PPE**

P R O U D L Y   M A N U F A C T U R I N G   I N   T H E   U S A   S I N C E   1 9 3 5





# CARBON ARMOUR™

The CARBON ARMOUR™ brand offers the largest selection of top quality thermal and welding protective products, manufactured in the U.S.A.

CARBON ARMOUR™ goes a step beyond to ensure comfort while providing protection against burns caused by molten metals, radiant heat, welding sparks, spatter, hot objects, and hot surroundings. When industry workers demand comfort and protection, NSA delivers.

The CARBON ARMOUR™ brand only offers product solutions that conform to brand requirements:

## THERMAL PROTECTION

- **Molten splash** protection against burns, ignition & injury
- **Radiant heat** protection against burns, ignition & injury
- **Contact heat** protection against burns, ignition & injury

## WELDING PROTECTION

- **Welding spark & pinhole** resistance against burns, ignition & injury
- **Welding molten droplets** (spatter) resistance against burns, ignition & injury

## PROVEN SAFE

- Tested to appropriate safety standards
- Labeled clearly and appropriately





## OUR MISSION:

# TO PROVIDE INNOVATIVE, QUALITY SAFETY APPAREL

In 1935 Wallace “Wally” Grossman graduated from school and realized employment wasn’t going to be easy due to the economic conditions. As a result, he started a business in his father’s basement where he began to manufacture Heat and Thermal protective apparel. It wasn’t long before the business took off and his father, George, quit his job and began working alongside his son. Together they started a successful family business during severe economic conditions.

The family business has continued to grow over the years and is known today as, National Safety Apparel®. When asked about the history of NSA, Chuck Grossman, current owner and President responded with: “Our business began with Heat and Thermal products and the intent to provide the highest quality protective apparel for individuals working in high heat environments. Today, we are a fourth generation family owned business that understands the importance of safety, quality, comfort, and customization. We continue to innovate and enhance our safety products offering. Innovation is the core value that drives us each day.”

At National Safety Apparel®, we provide many advantages to help make your purchasing decision easier. We are proud to manufacture in the U.S. and be certified to ISO 9001 with design, which allows us to offer product customization and personalization to any of our products and the ability to develop products to best meet your specific needs and hazards. Our outside sales team and inside customer service department are ready and able to address your needs, questions, and requests. Since 1935, workers across the country have relied on NSA’s quality craftsmanship.

### WHY NSA?

## HEADQUARTERS

*Proudly manufacturing in  
Cleveland, Ohio since 1935.*

## STOCK ITEMS

*NSA carries a large number of stock  
products to meet the needs of customers.*

## PERSONALIZED CUSTOMER SERVICE

*NSA provides a friendly customer service  
staff that is on call Monday through Friday,  
8am - 7pm EST. to help fulfill your safety  
apparel needs.*

## ISO CERTIFIED

*NSA is certified to ISO 9001:2008  
with design.*

## FABRIC CHOICES

*NSA carries a variety of fabrics to meet  
your needs. Multiple color, weight, and  
style options give you the freedom to  
choose exactly what you are looking for.*

## CUSTOMIZATION

*The possibilities are endless— NSA can  
customize almost every garment carried to  
meet your company requirements.*

## ICON KEY



**Molten Splash** — Evaluated as per ASTM F 955 Standard Test Method for Evaluating Heat Transfer through Materials for Protective Clothing Upon Contact with Molten Substances (specific metal test data available upon request).



**Radiant Heat** — Evaluated as per ASTM F 1939 Standard Test Method for Radiant Heat Resistance of Flame Resistant Clothing Materials with Continuous Heating.



**Contact Heat** — Evaluated as per ASTM F 1060 Standard Test Method for Evaluation of Conductive and Compressive Heat Resistance (CCHR).



**Primary Metals Protection** — Primary protection against molten metals as set forth in the “Guidelines for Handling Molten Aluminum” by the Aluminum Association.



**Secondary Metals Protection** — Secondary protection to be worn under primary protection as set forth in the “Guidelines for Handling Molten Aluminum” by the Aluminum Association.



**Welding** — Evaluated as per EN 11611 for Protective clothing for use in welding and allied processes



**UV** — Evaluated as per ANSI/ISEA Z87.1 Eye and Face Protection.



**High Performance** — Depicts a level of high performance. Some examples of high performance characteristics are quick dry-rate moisture wicking, anti-microbial, and body temperature regulating technology.



**Cut** — Evaluated as per ANSI 105 for cut resistance.



**Puncture** — Evaluated as per ANSI 105 for puncture resistance.



**Abrasion** — Evaluated as per ANSI 105 for abrasion resistance.

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# UPPER BODY PROTECTION

We offer several solutions for protection from thermal hazards. The following section features a few of our fabric and style options. However, we are known for producing customized safety garments for unique hazards. Contact us to discuss a custom solution to mitigate a specific hazard today.

## Why is aluminized protection important?

The aluminized layer on the outside of our flame resistant fabrics substantially increases protection from radiant heat and molten metal splash. The aluminized film acts as a mirror, reflecting radiant heat away from the user. Radiant heat protection is the major advantage that aluminized garments provide over other non-aluminized alternatives. Our aluminized apparel has been tested in accordance to ASTM F955 and ASTM F1939 requirements.

## INTRODUCING CARBON ARMOUR™ BLACK ICE FR™ & SILVER LINING FR™ BASE LAYERS

*Taking flame resistant base layer  
performance to the next level*

We are pleased to bring you CARBON ARMOUR™ Black Ice FR™ and Silver Lining FR™. We created these base layers with the ultimate comfort and protection in mind. Both Black Ice FR and Silver Lining FR come in mock turtleneck style shirts and long underwear that feature exceptionally soft and lightweight fabric with increased breathability. Available in black and grey, these flame resistant base layers provide increased thermal and arc protection. Black Ice FR and Silver Lining FR are taking flame resistant base layer performance to the next level!

Made from just 6 ounces of OPF blended fabric, CARBON ARMOUR Silver Lining FR provides an arc rating of 12 cal/cm<sup>2</sup>, CAT 2 and offers thermal protection when worn under aluminized PPE. The Black Ice FR is constructed from 7.7 ounce fabric with a higher concentration of OPF that delivers an arc rating of 15 cal/cm<sup>2</sup>, CAT 2 protection and thermal protection when worn under aluminized clothing.

Both flame resistant base layers exceed the minimum requirements in these PPE standards & test methods: ASTM F1506, ASTM F2700, OSHA 29 CFR 1910.269, NFPA 70E, CSA Z462-15, and provide ASTM F955 protection when worn in a layering system with primary protective garments (layering data is available).







BSBAV\_\_- Pant  
BSTAVLS\_\_- Shirt

2 HP

**CARBON ARMOUR™ SILVER LINING FR™ BASE LAYERS**

- 6 oz. OPF-Carbon Blend Interlock Knit
- Moisture wicking and quick drying
- Exceptionally soft, lightweight, and breathable
- FR fabric will not melt, drip, or ignite
- Mock turtleneck collar
- Advanced comfort and protection

\* Layering data is available

ASTM F955 Molten Metal Performance when layered with select aluminized clothing		
ASTM F1506	✓	
CSA Z462	✓	
NFPA 70E	✓	
ASTM F2700	12.5 cal/cm <sup>2</sup> with spacer 10.9 cal/cm <sup>2</sup> without spacer	
ARC RATING	12 cal/cm <sup>2</sup> — CAT 2	
SIZE	SM - 3X	
STOCK	✓	



BSBBK\_\_- Pant  
BSTBKLS\_\_- Shirt

2 HP

**CARBON ARMOUR™ BLACK ICE FR™ BASE LAYERS**

- 7.7 oz. OPF-Carbon Blend Interlock Knit
- Moisture wicking and quick drying
- Exceptionally soft, lightweight, and breathable
- FR fabric will not melt, drip, or ignite
- Mock turtleneck collar
- Advanced comfort and protection

\* Layering data is available

ASTM F955 Molten Metal Performance when layered with select aluminized clothing		
ASTM F1506	✓	
CSA Z462	✓	
NFPA 70E	✓	
ASTM F2700	15.6 cal/cm <sup>2</sup> with spacer 12 cal/cm <sup>2</sup> without spacer	
ARC RATING	15 cal/cm <sup>2</sup> — CAT 2	
SIZE	SM - 3X	
STOCK	✓	



SPXHPWS0108\_\_RG



**CARBON ARMOUR™ H2 WORK SHIRT**

- 6.4 oz. OPF-Carbon Twill Blend
- Moisture wicking and quick drying
- FR fabric will not melt, drip, or ignite
- Excellent comfort and durable protection
- Exceptional tensile and tear strength
- Two chest pockets with button closure

OSHA 1910.269	✓
ASTM F1506	✓
NFPA 70E	✓
CSA Z462	✓
Passes EN ISO 11611 A1, Class 2; A2, Class 2; 6.8 impact of spatter, Class 2; 6.9 Heat transfer (radiation), Class 1	
Anti-Static per EN 1149-5 (meets requirements for shielding factor and half decay time)	
ARC RATING	9 cal/cm <sup>2</sup> — CAT 2
SIZE	SM - 4X
MADE TO ORDER	



SPXHPWP0208\_\_\_\_



**CARBON ARMOUR™ H3 WORK PANT**

- 8.6 oz. OPF-Carbon Rip-Stop Blend
- Anti-static fabric
- Moisture wicking and quick drying
- FR fabric will not melt, drip, or ignite
- Exceptional tensile and tear strength
- Flat front styling with zip-fly
- Two front and two rear pockets

OSHA 1910.269	✓
ASTM F1506	✓
NFPA 70E	✓
CSA Z462	✓
Passes EN ISO 11611 A1, Class 2; A2, Class 2; 6.8 impact of spatter, Class 2; 6.9 Heat transfer (radiation), Class 1	
ARC RATING	10 cal/cm <sup>2</sup> — CAT 2
SIZE	30 - 50 Waist 30 - 36 Inseam
MADE TO ORDER	



SPXHPCA0208\_\_RG



**CARBON ARMOUR™ H2 COVERALL**

- 6.4 oz. OPF-Carbon Twill Blend
- Moisture wicking and quick drying
- FR fabric will not melt, drip, or ignite
- Exceptional tensile and tear strength
- Action back pleats for increased movement
- Elastic at waist
- Two chest pockets with snap closure

OSHA 1910.269	✓
ASTM F1506	✓
NFPA 70E	✓
CSA Z462	✓
Passes EN ISO 11611 A1, Class 2; A2, Class 2; 6.8 impact of spatter, Class 2; 6.9 Heat transfer (radiation), Class 1	
Anti-Static per EN 1149-5 (meets requirements for shielding factor and half decay time)	
ARC RATING	9 cal/cm <sup>2</sup> — CAT 2
SIZE	SM - 3X RG   MD - 3X LN
STOCK	✓





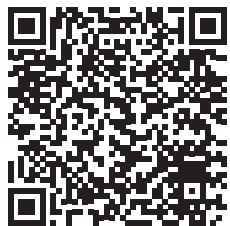


# INTRODUCING NXJ

*FIT. FORM. FUNCTION.*

The CARBON ARMOUR™ N4 Jacket with SafeGuard™ coating technology is the industry's newest and most advanced solution for metal workers. Amazing hazard protection from 2900 degree F molten iron in a breathable fabric, tested in accordance to ASTM F955. You can wear it all day, on the job, in the control room, or anywhere in the mill. Made with 9.5oz. coated OPF-carbon twill blend, all lengths feature our patented ventilated action back design offering the most innovative product to America's best.

The CARBON ARMOUR™ SILVERS H5 molten metal & radiant heat protective jacket is NSA's newest and most advanced solution for metal workers. Amazing multi-hazard protection from molten metal and radiant heat exposure; fabric tested in accordance to ASTM F955 and ASTM F1939. Made with a main 11 oz. aluminized OPF-carbon blended rip-stop fabric and a 8.6 oz. CARBON ARMOUR™ OPF-carbon rip-stop blend this jacket features our patented action back design, offering extended movement and the most innovative product to America's best.



Scan the QR code to learn more about the features and benefits exclusive to our NXJ design





NXJN4C\_\_30

**CARBON ARMOUR™ N4 JACKET**

- 9.5 oz. SafeGuard™ coating technology OPF-Carbon blend
- Quick drying
- Exceptional tensile and tear strength
- Snap front with leather pull tabs for ease of use with gloves
- Contoured long tail lower back
- Articulated elbows for extended wear life and improved movement
- Ventilated action back improves airflow and movement

Tested in accordance to ASTM F955  
(2.2 lbs. of 2900°F Molten Iron)

LENGTH	30", 40", 50"
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SIZE	MD - 2X
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MADE TO ORDER
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NXJN4C08\_\_45

**CARBON ARMOUR™ N4 DELUXE COAT W/ HI-VIS STRIPING**

- 9.5 oz. SafeGuard™ coating technology OPF-Carbon blend
- Quick drying
- Exceptional tensile and tear strength
- Snap front with leather pull tabs for ease of use with gloves
- Contoured long tail lower back
- Articulated elbows for extended wear life and improved movement
- Ventilated action back improves airflow and movement

Tested in accordance to ASTM F955  
(2.2 lbs. of 2900°F Molten Iron)

LENGTH	45"
--------	-----

SIZE	MD - 2X
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MADE TO ORDER
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## FIT. FORM. FUNCTION. NXJ DESIGN FEATURES

The most advanced design for metal workers. NXJ features patented movement technology and utilizes patented high performance fabrics that feature the lightest, most breathable, and fast drying rates in the industry.



Snap front with leather pull tabs for ease of use with CARBON ARMOUR™ gloves. Built for performing task based work.



Patented action back with ventilation for extended movement, comfort, and airflow.



Under arm gussets increase breathability and airflow.



Articulated elbows extend jacket wear life and add freedom of movement.



NXJH5\_30

### CARBON ARMOUR™ SILVERS H5 ALUMINIZED COAT

- 11 oz. Aluminized OPF-Carbon Rip-stop
- 8.6 oz. CARBON ARMOUR™ OPF Carbon rip-stop blend lower back
- Exceptional tensile and tear strength
- Snap front with leather pull tabs for ease of use with gloves
- Ventilated action back for extended movement, comfort, and airflow.
- Arm pleats extend jacket wear life.
- Under arm gussets add airflow and breathability
- Contoured long tail lower back

Tested in accordance to ASTM F955  
(2.2 lbs. of 2900°F Molten Iron)

Tested in accordance to ASTM F1939  
(3000°F + Radiant Heat)

LENGTH	30"
SIZE	MD - 3X

MADE TO ORDER

*\*Test data only for aluminized portion*





C22NL\_30



**CARBON ARMOUR™ SILVERS NL DELUXE ALUMINIZED COAT**

- 19 oz. Aluminized OPF-Carbon/ Para-Aramid Blend
- Snap front with leather pull tabs for ease of use with gloves
- Snaps at wrist for adjustments
- Aluminized vented back
- Under-arm eyelets for ventilation

Tested in accordance to ASTM F955 (2.2 lbs. of 2900°F Molten Iron)	
Tested in accordance to ASTM F1939 (3000°F + Radiant Heat)	
LENGTH	30", 45"
SIZE	MD - 2X
STOCK	✓



C22QQ\_30



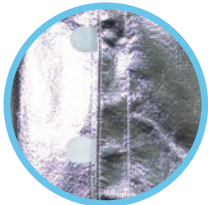
**CARBON ARMOUR™ SILVERS QQ ALUMINIZED COAT**

- 10 oz. Aluminized OPF Para-Aramid Felt Blend
- Covered snap front closure
- Snaps at wrist for adjustments
- Aluminized vented back
- Under-arm eyelets for ventilation

Tested in accordance to ASTM F955 (2.2 lbs. of 2900°F Molten Iron)	
Tested in accordance to ASTM F1939 (3000°F + Radiant Heat)	
LENGTH	30", 40", 50"
SIZE	MD - 2X
MADE TO ORDER	

## C22 DESIGN FEATURES

Designed with metal workers in mind. The safety you need with some great additional features, allowing you to fully focus on tasks and get the job done right.



Snap front with leather pull tabs for ease of use with CARBON ARMOUR™ gloves. Built for performing task based work.



Aluminized vented back increases airflow.



Under arm eyelets increase breathability and ventilation.



Stand up collar for optimal neck protection



BACK OF FABRIC

C22CE\_30



### CARBON ARMOUR™ SILVERS CE DELUXE ALUMINIZED COAT

- 12 oz. Aluminized OPF-Carbon Fleece
- Covered snap front closure
- Snaps at wrist for adjustments
- Aluminized vented back
- Under-arm eyelets for ventilation

Tested in accordance to ASTM F955 (2.2 lbs. of 2900°F Molten Iron)

Tested in accordance to ASTM F1939 (3000°F + Radiant Heat)

LENGTH	30", 40", 45", 50"
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SIZE	MD - 2X
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MADE TO ORDER
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C17NJ\_ \_ 45

**CARBON ARMOUR™ SILVERS NJ ALUMINIZED COAT**

- 13 oz. Aluminized OPF-Carbon/ DuPont™ Kevlar® Blend
- Excellent comfort and durable protection



Tested in accordance to ASTM F955  
(2.2 lbs. of 2900°F Molten Iron)

Tested in accordance to ASTM F1939  
(3000°F + Radiant Heat)

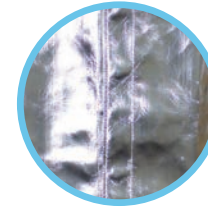
LENGTH	30", 40", 45", 50"
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SIZE	SM - 4X
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MADE TO ORDER
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**C17 DESIGN FEATURES**

Simply designed with the protection metal workers need.



Covered snap front closure



Raglan sleeve pattern for ease of arm movement



Stand up collar for optimal neck protection





C17AS\_50



**ALUMINIZED ACRYFIL AS COAT**

- 16 oz. Aluminized Acrysil
- Covered snap front closure
- Stand up collar lined with green FR cotton
- Provides protection from radiant heat

Tested in accordance to ASTM F955 (2.2 lbs. of 2900°F Molten Iron)

Tested in accordance to ASTM F1939 (3000°F + Radiant Heat)

LENGTH 50"

SIZE MD -2X

STOCK ✓



C22NJ008\_45



**CARBON ARMOUR™ SILVERS NJ ALUMINIZED COAT**

- 13 oz. Aluminized OPF-Carbon/DuPont™ Kevlar® Blend
- 9.5 oz. FR Green Cotton Sateen
- Covered snap front closure

*\*Test data only for aluminized portion*

Tested in accordance to ASTM F955 (2.2 lbs. of 2900°F Molten Iron)

Tested in accordance to ASTM F1939 (3000°F + Radiant Heat)

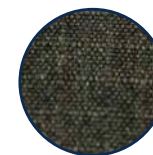
LENGTH 45"

SIZE MD- 2X

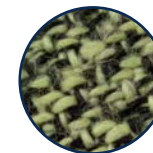
STOCK ✓

## AVAILABLE FABRICS

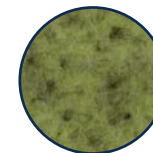
11 oz. Aluminized OPF-Carbon Ripstop **H5**



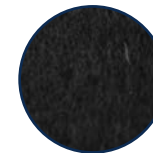
19 oz. Aluminized OPF/Para-Aramid Blend **NL**



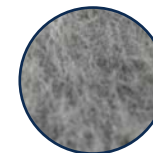
10 oz. Aluminized OPF/Para-Aramid Blend **QQ**



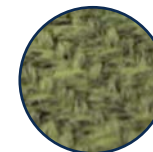
12 oz. Aluminized OPF-Carbon Fleece Blend **CE**



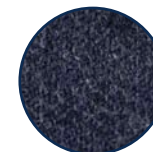
12 oz. Aluminized Preox-FR Rayon Fleece Blend **ZG**



13 oz. Aluminized OPF-Carbon/DuPont™ Kevlar® Blend **NJ**



9.5 oz. SafeGuard™ Coating Technology OPF-Carbon Blend **N4**

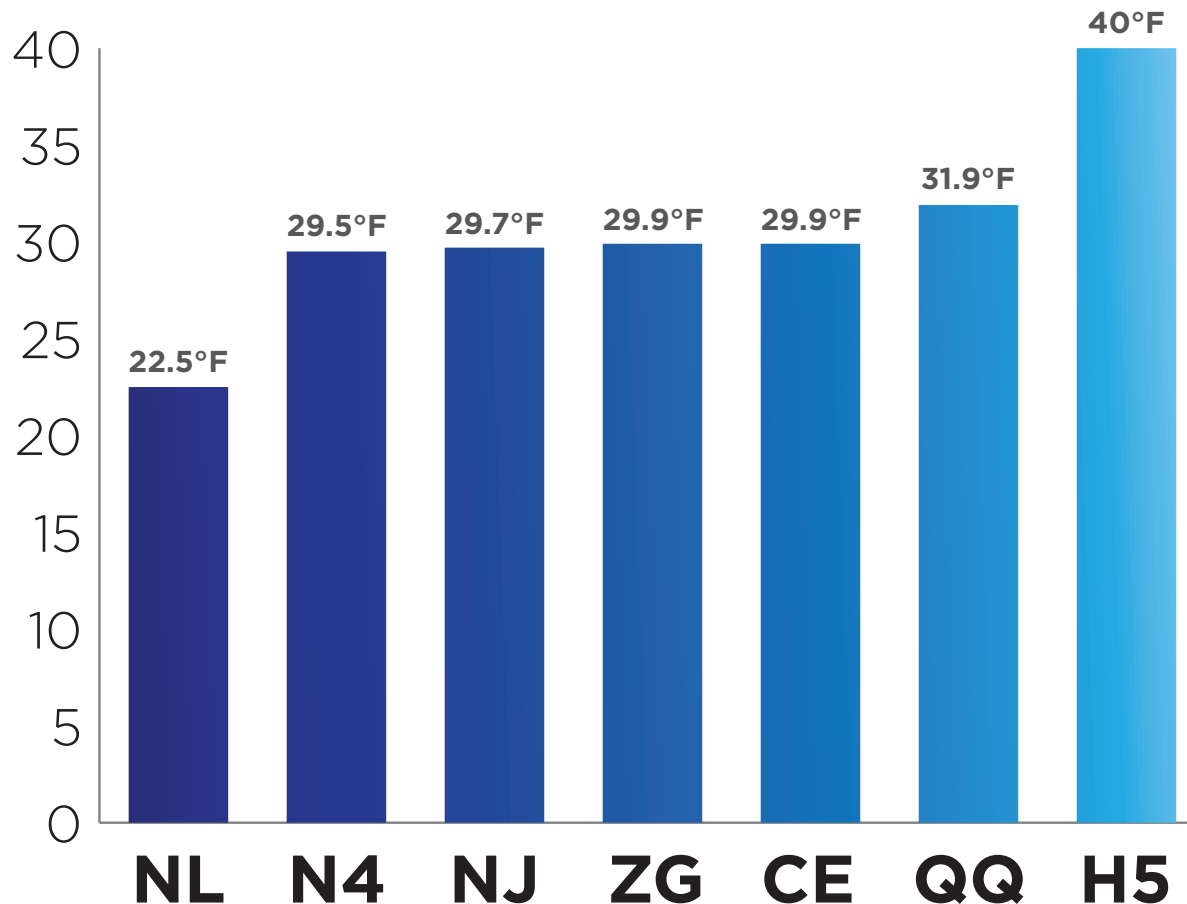




# MOLTEN IRON ASTM F955 TEST RESULTS

2.2 Lbs. Molten Iron Pour Test

## MAX TEMPERATURE RISE IN °F



- NL 19 oz. Aluminized OPF-Para-Aramid Blend
- N4 9.5 oz. SafeGuard™ coating technology OPF-Carbon Blend
- NJ 13 oz. Aluminized OPF-Carbon/Kevlar® Blend
- ZG 12 oz. Aluminized Preox-FR Rayon Fleece Blend
- CE 12 oz. Aluminized OPF-Carbon Fleece Blend
- QQ 10 oz. Aluminized OPF-Para-Aramid Blend
- H5 11 oz. Aluminized OPF-Carbon Ripstop

\* Lower temperature indicates potential increased thermal protection



C07H3GCBG\_\_30

**CARBON ARMOUR™ H3 JACKET**

- 8.6 oz. OPF-Carbon Rip-Stop Blend
- Anti-static fabric
- Moisture wicking and quick drying
- FR fabric will not melt, drip, or ignite
- Exceptional tensile and tear strength
- Covered snap front closure
- Inside left chest pocket
- Snaps at wrist for adjustment

OSHA 1910.269	✓
ASTM F1506	✓
NFPA 70E	✓
CSA Z462	✓
Passes EN ISO 11611 A1, Class 2; A2, Class 2; 6.8 impact of spatter, Class 2; 6.9 Heat transfer (radiation), Class 1	
ARC RATING	10 cal/cm <sup>2</sup> CAT 2
SIZE	SM-3X
STOCK	✓



C07H2GCBG\_\_30

**CARBON ARMOUR™ H2 JACKET**

- 6.4 oz. OPF-Carbon Twill Blend
- Moisture wicking and quick drying
- FR fabric will not melt, drip, or ignite
- Excellent comfort and durable protection
- Exceptional tensile and tear strength
- Covered snap front closure
- Inside left chest pocket
- Snaps at wrist for adjustment

OSHA 1910.269	✓
ASTM F1506	✓
NFPA 70E	✓
CSA Z462	✓
Passes EN ISO 11611 A1, Class 2; A2, Class 2; 6.8 impact of spatter, Class 2; 6.9 Heat transfer (radiation), Class 1	
Anti-Static per EN 1149-5 (meets requirements for shielding factor and half decay time)	
ARC RATING	9 cal/cm <sup>2</sup> CAT 2
SIZE	SM - 4X
MADE TO ORDER	



C09WL\_\_30

2

**NAVY WOOL WL JACKET**

- 30 oz. FR Wool
- Double layer shirt collar
- FR Twill collar
- FR fabric will NOT melt, drip, or ignite
- Hidden snap front closure
- Inside left chest pocket

LENGTH	30"
SIZE	MD - 3X
STOCK	✓

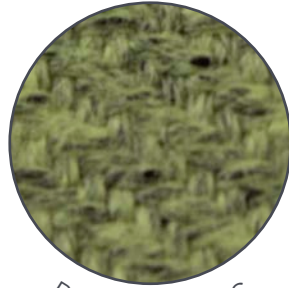
## INNOVATING FOR YOU

We are continuously working to utilize the latest fabrics to create new innovation safety products for our customers.

Stay up to date on our latest product innovations by visiting our website ***www.thinkNSA.com***.



Scan the QR code with your mobile device to quickly connect with one of our safety apparel experts via email, live chat, or phone.



BACK OF FABRIC

S02NJ18



**CARBON ARMOUR™ SILVERS NJ ALUMINIZED SLEEVES**

- 13 oz. Aluminized OPF-Carbon/  
DuPont™ Kevlar® Blend
- Snap wrist closure

Tested in accordance to ASTM F955 (2.2 lbs. of 2900°F Molten Iron)	
Tested in accordance to ASTM F1939 (3000°F + Radiant Heat)	
LENGTH	18"
SIZE	Regular
STOCK	✓



BACK OF FABRIC

S02NL18



**CARBON ARMOUR™ SILVERS NL ALUMINIZED SLEEVES**

- 19 oz. Aluminized OPF-Carbon/  
Para-Aramid Blend
- Snap wrist closure
- Open top

Tested in accordance to ASTM F955 (2.2 lbs. of 2900°F Molten Iron)	
Tested in accordance to ASTM F1939 (3000°F + Radiant Heat)	
LENGTH	18"
SIZE	Regular
STOCK	✓



BACK OF FABRIC

S02H518



**CARBON ARMOUR™ SILVERS H5 ALUMINIZED SLEEVES**

- 11 oz. Aluminized OPF-Carbon Ripstop
- Snap wrist closure
- Open top

Tested in accordance to ASTM F955 (2.2 lbs. of 2900°F Molten Iron)	
Tested in accordance to ASTM F1939 (3000°F + Radiant Heat)	
LENGTH	18"
SIZE	Regular
MADE TO ORDER	



S00CA0318



**CARBON ARMOUR™ CA SLEEVE**

- OPF-Carbon String Knit Blend
- Thumbhole added for coverage of the palm and back of hand
- Knit fabric for comfortable fit
- Seamless design for no-rub comfort
- Stretchable fabric for flexibility and easy range of motion

ANSI/ ISEA 105   HEAT   LEVEL 2  15.6 seconds at 284°F	
LENGTH	18" (RG) or 21" (LG)
SIZE	RG (Regular), LG (Large)
STOCK	✓



S02H3GC01\_ \_

**CARBON ARMOUR™ H3 SLEEVE**

- 8.6 oz. OPF-Carbon Rip-Stop Blend
- DuPont Kevlar® knit wrist
- Moisture wicking and quick drying
- FR fabric will not melt, drip, or ignite
- Exceptional tensile and tear strength
- Elastic on one end for added comfort
- Thumbhole for added coverage of the palm & back of hand

ASTM F1506	✓
Passes EN ISO 11611 A1, Class 2; A2, Class 2; 6.8 impact of spatter, Class 2; 6.9 Heat transfer (radiation), Class 1	
LENGTH	18"(RG), 21"(LG)
SIZE	RG, LG
STOCK	✓



S02H2GC00\_ \_

**CARBON ARMOUR™ H2 SLEEVE**

- 6.4 oz. OPF-Carbon Twill Blend
- Moisture wicking and quick drying
- FR fabric will not melt, drip, or ignite
- Excellent comfort and durable protection
- Exceptional tensile and tear strength
- Elastic on ends for added comfort

ASTM F1506	✓
Passes EN ISO 11611 A1, Class 2; A2, Class 2; 6.8 impact of spatter, Class 2; 6.9 Heat transfer (radiation), Class 1	
Anti-Static per EN 1149-5 (meets requirements for shielding factor and half decay time)	
LENGTH	18" (RG), 21" (LG)
SIZE	RG, LG
STOCK	✓



S02TW00RG

**WELDING TW SLEEVE**

- 8.5 oz. ArcWeld® Twaron blend
- Blue elastic on both ends for added comfort

ASTM F1506	✓
ANSI/ISEA   CUT   LEVEL 2	
LENGTH	18"
SIZE	Regular
STOCK	✓



S02GR00RG

**GREEN SATEEN GR SLEEVE**

- 9.5 oz. FR Green Cotton Sateen
- Blue elastic on both ends for added comfort

LENGTH	18"
SIZE	Regular
STOCK	✓









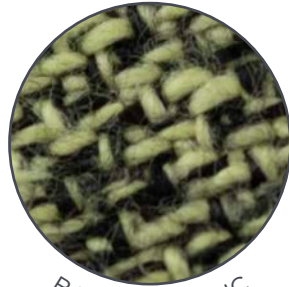
# LOWER BODY PROTECTION

This section features some of the stock options we offer to protect legs and arms from thermal hazards. These products include aluminized pants, chaps, spats, leggings, and a variety of sleeves. Learn about our made-to-order and customization options by contacting us today.

What are CARBON ARMOUR™ SILVERS?

CARBON ARMOUR™ SILVERS are the best of National Safety Apparel's aluminized fabrics powered by Carbon-OPF. Carbon-OPF provides the end user with a superior barrier from thermal conductivity when compared to only aramids. Offered in multiple weights and levels of protection to fit your PPE needs, CARBON ARMOUR SILVERS are tested in accordance to ASTM F955 and ASTM F1939.

Introducing H5 the newest addition the Carbon Armour™ Silvers line. At only 11 ounces H5 is lightweight breathable, and high performance. H5 is backed with a comfortable OPF Carbon Ripstop material. Not only is the material comfortable but it is highly protective with a max temp rise of 40 °F.



BACK OF FABRIC

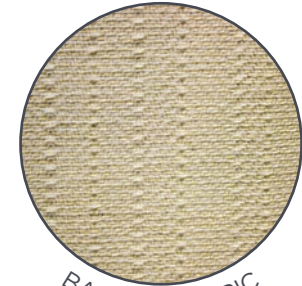
A02NL24X36



**CARBON ARMOUR™ SILVERS NL ALUMINIZED APRON**

- 19 oz. Aluminized OPF-Carbon/Para-Aramid Blend
- Leather strap with slide snap at waist and neck

Tested in accordance to ASTM F955 (2.2 lbs. of 2900°F Molten Iron)	
Tested in accordance to ASTM F1939 (3000°F + Radiant Heat)	
LENGTH	36"
STOCK	✓



BACK OF FABRIC

A02AS24X\_ \_



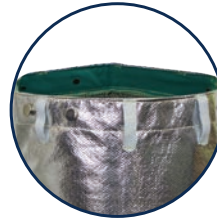
**ALUMINIZED ACRYASIL AS APRON**

- 16 oz. Aluminized Acrysil
- Leather strap with slide snap at waist and neck

Fabric passed ASTM F955 (Molten Iron at 2800°F)	
Tested in accordance to ASTM F1939 (3000°F + Radiant Heat)	
LENGTH	36", 48"
STOCK	✓



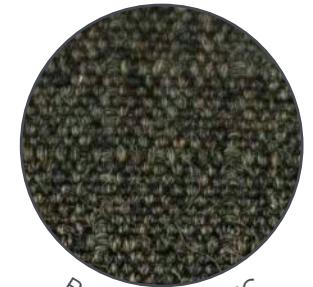
BACK OF FABRIC



Leather belt loops and suspender buttons on outside waist.



Suspenders (I Z362, sold separately). (Stock)



BACK OF FABRIC



T45NJ\_X32



**CARBON ARMOUR™ SILVERS NJ ALUMINIZED PANTS**

- 13 oz. Aluminized OPF-Carbon/DuPont™ Kevlar® Blend
- Reinforced seat seams, belt loops, and a snap closure
- Trouser style over pant

Tested in accordance to ASTM F955 (2.2 lbs. of 2900°F Molten Iron)	
Tested in accordance to ASTM F1939 (3000°F + Radiant Heat)	
LENGTH	29", 23", 34"
SIZE	MD - 2X
MADE TO ORDER	

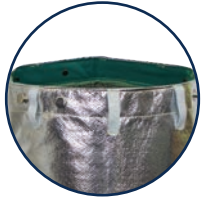
T45H5\_X32



**CARBON ARMOUR™ SILVERS H5 ALUMINIZED PANTS**

- 11 oz. Aluminized OPF-Carbon Ripstop
- Reinforced seat seams, belt loops, and snap closure
- Trouser style overpant

Tested in accordance to ASTM F955 (2.2 lbs. of 2900°F Molten Iron)	
Tested in accordance to ASTM F1939 (3000°F + Radiant Heat)	
LENGTH	29", 32", 34"
SIZE	MD-2X
MADE TO ORDER	



Leather belt loops and suspender buttons on outside waist.



Suspenders (1 Z362, sold separately). (Stock)



BACK OF FABRIC

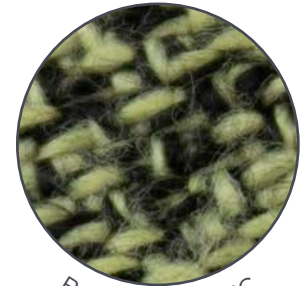


T45NL\_ \_X32

**CARBON ARMOUR™ SILVERS NL ALUMINIZED PANTS**

- 19 oz. Aluminized OPF-Carbon/ Para-Aramid Blend
- Reinforced seat seams, belt loops, and a snap closure
- Trouser style over pant

Tested in accordance to ASTM F955 (2.2 lbs. of 2900°F Molten Iron)	
Tested in accordance to ASTM F1939 (3000°F + Radiant Heat)	
LENGTH	32"
SIZE	MD - 2X
STOCK	✓



BACK OF FABRIC



L38NLNL\_ \_

**CARBON ARMOUR™ SILVERS NL ALUMINIZED CHAPS**

- 19 oz. Aluminized OPF-Carbon/ Para-Aramid Blend
- Leather strap at waist with belt buckle for adjustment
- Leather crotch reinforcement
- Aluminized foot flap

Tested in accordance to ASTM F955 (2.2 lbs. of 2900°F Molten Iron)	
Tested in accordance to ASTM F1939 (3000°F + Radiant Heat)	
LENGTH	34" OR 36"
MADE TO ORDER	





L09TATAVCXX\_ \_

**THERMOBEST™ SILVERS TA ALUMINIZED SPATS**

- 19 oz. Aluminized Thermobest™ Silvers
- FR Hook & loop closure
- Aluminized foot flap with soft steel frame
- Fits over work boot

Tested in accordance to ASTM F955 (2.2 lbs. of 2900°F Molten Iron)

Tested in accordance to ASTM F1939 (3000°F + Radiant Heat)

SIZE	LG (Large)
STOCK	✓



L05TATAVCXX\_ \_

**THERMOBEST™ SILVERS TA ALUMINIZED LEGGINGS**

- 19 oz. Aluminized Thermobest™ Silvers
- FR Hook & loop closure
- Aluminized foot flap
- Fits over work boot

Tested in accordance to ASTM F955 (2.2 lbs. of 2900°F Molten Iron)

Tested in accordance to ASTM F1939 (3000°F + Radiant Heat)

SIZE	LG (Large), XL (Extra Large)
STOCK	✓



L05NLNLVCXX\_ \_

**CARBON ARMOUR™ SILVERS NL ALUMINIZED LEGGINGS**

- 19 oz. Aluminized OPF-Carbon/Para-Aramid Blend
- FR Hook & loop closure
- Aluminized foot flap with soft steel
- Fits over work boot

Tested in accordance to ASTM F955 (2.2 lbs. of 2900°F Molten Iron)

Tested in accordance to ASTM F1939 (3000°F + Radiant Heat)

SIZE	LG (Large), XL (Extra Large)
STOCK	✓







# HEAD & NECK PROTECTION

Tally hoods, neck protectors, and aluminized hoods are some of our more common head protective items. Ranging from our H15 gold flip front faceshield, to our wide variety of balaclavas, we are continuously working to modernize the high heat industry product by product.

What is the importance of tinted faceshields?

Gold tinted faceshields help to reflect radiant heat away from the user. Custom faceshield options include (but are not limited to): different tinted faceshields, vents, the material used and different styles. Contact us today to discuss a custom solution for a specific industry hazard.

**H15H5GOLDF & H15H5GOLDB****CARBON ARMOUR™ SILVERS H5 ALUMINIZED HOOD**

- 11 oz. Aluminized OPF-Carbon Ripstop
- Flip up faceshield
- Ratchet headgear included
- Front with faceshield (H15H5GOLDF) pictured along with detachable back sold separately (H15H5GOLDB)



Tested in accordance to ASTM F955 (2.2 lbs. of 2900°F Molten Iron)

Tested in accordance to ASTM F1939 (3000°F + Radiant Heat)

MADE TO ORDER

**H15NJFLIP****CARBON ARMOUR™ SILVERS NJ ALUMINIZED HOOD**

- 13 oz. Aluminized OPF-Carbon/ DuPont™ Kevlar® Blend
- Flip up faceshield
- Ratchet headgear included
- Rear wire mesh vent
- Also available with gold faceshield (H04XXFLIP)



Tested in accordance to ASTM F955 (2.2 lbs. of 2900°F Molten Iron)

Tested in accordance to ASTM F1939 (3000°F + Radiant Heat)

MADE TO ORDER

**H58TARG****THERMOBEST™ SILVERS TA ALUMINIZED HOOD**

- 19 oz. Aluminized Thermobest™
- Gold film cover for radiant heat protection
- Ratchet headgear included
- Heavy duty metal faceshield frame

*\*Clear polycarbonate faceshield (1 ZWW) and gold film (X04GE007X11) replacements sold separately*



Tested in accordance to ASTM F955 (2.2 lbs. of 2900°F Molten Iron)

Tested in accordance to ASTM F1939 (3000°F + Radiant Heat)

STOCK

✓

**H58NLHG****CARBON ARMOUR SILVERS NL ALUMINIZED HOOD**

- 19 oz. Aluminized OPF-Carbon/Para-Aramid Blend
- Gold film cover for radiant heat protection
- Universal headgear included
- Heavy duty metal faceshield frame



Tested in accordance to ASTM F955 (2.2 lbs. of 2900°F Molten Iron)

Tested in accordance to ASTM F1939 (3000°F + Radiant Heat)

STOCK

✓



**H74H3001****CARBON ARMOUR™ H3 TALLY HOOD**

- 8.6 oz. OPF-Carbon Rip-Stop Blend
- Moisture wicking and fast drying
- FR fabric will not melt, drip, or ignite
- Exceptional tensile and tear strength
- FR Hook & loop closure
- Provides protection for head and neck area from hazards

OSHA 1910.269	✓
ASTM F1506	✓
Passes EN ISO 11611 A1, Class 2; A2, Class 2; 6.8 impact of spatter, Class 2; 6.9 Heat transfer (radiation), Class 1	
MADE TO ORDER	

**H74N4001****CARBON ARMOUR™ N4 TALLY HOOD**

- 9.5 oz. SafeGuard™ coating technology OPF-Carbon blend
- Fast drying
- FR Hook & loop closure
- Provides protection for neck from hazards

Tested in accordance to ASTM F955 (2.2 lbs. of 2900°F Molten Iron)

MADE TO ORDER

**H74GW001****GREEN TWILL TALLY HOOD**

- 12 oz. FR Green Twill
- FR Hook & loop closure
- Provides protection for head and neck area from hazards

STOCK	✓
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**H74NJ001****CARBON ARMOUR™ SILVERS NJ ALUMINIZED TALLY HOOD**

- 13 oz. Aluminized OPF-Carbon/ DuPont™ Kevlar® Blend
- FR Hook & loop closure
- Provides protection for head and neck area from hazards

Tested in accordance to ASTM F955 (2.2 lbs. of 2900°F Molten Iron)

Tested in accordance to ASTM F1939 (3000°F + Radiant Heat)

MADE TO ORDER



H01H3043

**CARBON ARMOUR™ H3 NECK PROTECTOR**

- 8.6 oz. OPF-Carbon Rip-Stop Blend
- Anti-static fabric
- Moisture wicking and fast drying
- FR fabric will not melt, drip, or ignite
- Exceptional tensile and tear strength
- Hook and loop attachment attaches to most standard hard hats

OSHA 1910.269	✓
ASTM F1506	✓
Passes EN ISO 11611 A1, Class 2; A2, Class 2; 6.8 impact of spatter, Class 2; 6.9 Heat transfer (radiation), Class 1	
MADE TO ORDER	



H01N4043

**CARBON ARMOUR™ N4 NECK PROTECTOR**

- 9.5 oz. SafeGuard™ coating technology OPF-Carbon blend
- Fast drying
- Hook and loop attachment attaches to most standard hard hats

Tested in accordance to ASTM F955 (2.2 lbs. of 2900°F Molten Iron)
MADE TO ORDER



**H01GR003**  
**GREEN SATEEN GR NECK PROTECTOR**



- 9.5 oz. FR Green Cotton Sateen
- Elastic attachment over hard hat
- Provides protection for neck from hazards
- Elastic attachment attaches to most standard hard hats

STOCK	✓
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**H01NJ043**  
**CARBON ARMOUR™ SILVERS NJ NECK PROTECTOR**



- 13 oz. Aluminized OPF-Carbon/DuPont™ Kevlar® Blend
- Provides protection for neck from hazards
- Hook and loop attachment attaches to most standard hard hats

Tested in accordance to ASTM F955 (2.2 lbs. of 2900°F Molten Iron)
Tested in accordance to ASTM F1939 (3000°F + Radiant Heat)
MADE TO ORDER





#### H41NK

##### NK HOOD W/ EYE HOLES

- 6 oz. DuPont™ Nomex® Interlock Knit
- Triple layer top
- Single layer bib
- Eye hole openings
- Durable and lightweight
- Designed for comfort and flexibility

ASTM F1506	✓
STOCK	✓



#### H31NK

##### KNIT NK HOOD

- 6 oz. DuPont™ Nomex® Interlock Knit
- Double layer top
- Single layer bib
- Full-face opening
- Durable and lightweight
- Designed for comfort and flexibility

ASTM F1506	✓
STOCK	✓



#### H61MH

##### KNIT MH HOOD

- 6 oz. DuPont™ Nomex® Interlock/Modacrylic Knit Blend
- Double layer
- Half-face opening
- Durable and lightweight
- Designed for comfort and flexibility

OSHA 1910.269	
ASTM F1506	✓
NFPA 70E	✓
CSA Z462	✓
ARC RATING	16 cal/cm² — CAT 2
STOCK	✓



#### H12NK

##### SHORT STYLE NK HOOD

- 6 oz. DuPont™ Nomex® Interlock Knit
- Single layer
- Larger full-face opening
- Durable and lightweight
- Designed for comfort and flexibility

ASTM F1506	✓
STOCK	✓


**H61NK**
**DOUBLE LAYER NK HOOD**

- 6 oz. DuPont™ Nomex® Interlock Knit
- Double layer top
- Double layer bib
- Half-face opening
- Durable and lightweight

OSHA 1910.269	✓
ASTM F1506	✓
NFPA 70E	✓
CSA Z462	✓
ARC RATING	10 cal/cm <sup>2</sup> — CAT 2
STOCK	✓


**H61RK**
**CARBON ARMOUR™ RK DOUBLE LAYER HOOD**

- 6 oz. OPF-Carbon Interlock Knit
- Double layer
- Half-face opening
- Durable and lightweight
- Designed for comfort and flexibility

OSHA 1910.269	✓
ASTM F1506	✓
NFPA 70E	✓
CSA Z462	✓
ARC RATING	42 cal/cm <sup>2</sup>
CAT	4
STOCK	✓


**H30NK**
**HALF FACE OPENING NK HOOD**

- 6 oz. DuPont™ Nomex® Interlock Knit
- Double layer top
- Single layer bib
- Half-face opening
- Durable and lightweight
- Designed for comfort and flexibility

ASTM F1506	✓
STOCK	✓


**H31PK**
**DOUBLE LAYER PK HOOD**

- 6 oz. PBI Knit
- Double layer top
- Single layer bib
- Large full-face opening
- Durable and lightweight
- Designed for comfort and flexibility

STOCK	✓
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**H18CX**

**CARBON ARMOUR™ CX FR KNIT BALACLAVA**

- 7 oz. OPF-Carbon Rib Knit
- Double layer
- Large half-face opening
- Shoulder gussets for added comfort
- Durable and lightweight

OSHA 1910.269	✓
ASTM F1506	✓
NFPA 70E	✓
CSA Z462	✓
ARC RATING	30 cal/cm²
CAT	3
STOCK	✓



**H25CX**

**CARBON ARMOUR™ CX FR KNIT BALACLAVA**

- 7 oz. OPF-Carbon Rib Knit
- Double layer
- Wide Cut half-face opening
- Shoulder gussets for added comfort
- Durable and lightweight

OSHA 1910.269	✓
ASTM F1506	✓
NFPA 70E	✓
CSA Z462	✓
ARC RATING	30 cal/cm²
CAT	3
STOCK	✓



**H100CX**

**CARBON ARMOUR™ CX FR KNIT BALACLAVA**

- 7 oz. OPF-Carbon Rib Knit
- Double layer
- Eye opening has nose contour
- Shoulder gussets for added comfort
- Durable and lightweight

OSHA 1910.269	✓
ASTM F1506	✓
NFPA 70E	✓
CSA Z462	✓
ARC RATING	30 cal/cm²
CAT	3
SIZE	Regular, Extra Large
STOCK	✓





**H20XXGDS**

**GOLD PROTECTIVE SHIELD**

- Polycarbonate resin injection molded provides an advanced design.
- Gold layer is protected by a hard coating promoting longer wear life.
- Metalized gold shield reflects radiant heat away from the face.
- Low profile cap bracket with adjustable pivots and slotted cap adapters.
- Designed to fit most slotted hard hats.
- Great for ferrous & non-ferrous melting, molding, finishing, welding, grinding, machining, masonry work, riveting, sanding, and preventing glare

ANSI/ISEA Z87.1-2015	Impact Rated Z87+
ANSI/ISEA Z87.1-2015	Visible Light L2.5
ANSI/ISEA Z87.1-2015	Infrared Radiation R4
STOCK	✓



**H04XX002**

**PROTECTIVE SHIELD**

- Clear faceshield provides high quality optics
- Aluminum bracket with universal adapter to fit over a wide range of hard hats
- Great for ferrous & non-ferrous melting, molding, finishing, welding, grinding, machining, masonry work, riveting, sanding, and preventing glare

ANSI/ISEA Z87.1-2015	Impact Rated Z87+
ANSI/ISEA Z87.1-2015	Visible Light L5
ANSI/ISEA Z87.1-2015	Infrared Radiation R7
ANSI/ISEA Z87.1-2015	Welding Filter Shade W5
ANSI/ISEA Z87.1-2015	UltraViolet Radiation U2
STOCK	✓



I ZFSCGFLIP (Stock)



H16XXCGFLIPUB

**GOLD TINTED SHIELD**

- Gold tinted half shield with clear universal adaptor
- Half shield able to be secured in various positions
- Reduces visible light brightness and reflects heat (infrared radiation)
- Designed to fit most slotted hard hats.
- Gold tinted half shield available without clear faceshield (I ZFSCGFLIP)

\* UV protection for half shield only

ANSI/ISEA Z87.1-2015	Impact Rated Z87+
ANSI/ISEA Z87.1-2015	Visible Light L2.5
ANSI/ISEA Z87.1-2015	Infrared Radiation R4
STOCK	✓



I ZFSC5FLIP (Stock)



H16XXCC5FLIPUB

**COBALT SHADE 5 SHIELD**

- Cobalt Shade 5 half shield with clear universal adaptor
- Half shield able to be secured in various positions
- Reduces UV exposure and infrared radiation (heat)
- Reduces bright yellow/orange (sodium line) of the visible light spectrum
- Designed to fit most slotted hard hats.
- Cobalt Shade 5 half shield available without clear faceshield (I ZFSC5FLIP)

\* UV and welding protection for half shield only

ANSI/ISEA Z49.1	Shade 5
ANSI/ISEA Z87.1-2015	Impact Rated Z87+
ANSI/ISEA Z87.1-2015	Visible Light L5
ANSI/ISEA Z87.1-2015	Infrared Radiation R7
ANSI/ISEA Z87.1-2015	Welding Filter Shade W5
ANSI/ISEA Z87.1-2015	UltraViolet Radiation U2
STOCK	✓



I ZFSS5FLIP (Stock)



H16XXCS5FLIPUB

**GREEN SHADE 5 SHIELD**

- Green Shade 5 half shield with clear universal faceshield
- Half shield able to be secured in various positions
- Reduces UV exposure, visible light brightness, and infrared radiation (heat)
- Green Shade 5 half shield available without clear faceshield (I ZFSS5FLIP)

\* UV and welding protection for half shield only

ANSI/ISEA Z49.1	Shade 5
ANSI/ISEA Z87.1-2015	Impact Rated Z87+
ANSI/ISEA Z87.1-2015	Visible Light L5
ANSI/ISEA Z87.1-2015	Infrared Radiation R6
ANSI/ISEA Z87.1-2015	Welding Filter Shade W5
ANSI/ISEA Z87.1-2015	UltraViolet Radiation U2
STOCK	✓



I ZFSS8FLIP (Stock)



H16XXCS8FLIPUB

**GREEN SHADE 8 SHIELD**

- Green Shade 8 half shield with clear universal faceshield
- Half shield able to be secured in various positions
- Reduces UV exposure, visible light brightness, and infrared radiation (heat)
- Green Shade 8 half shield available without clear faceshield (I ZFSS8FLIP)

\* UV and welding protection for half shield only

ANSI/ISEA Z49.1	Shade 8
ANSI/ISEA Z87.1-2015	Impact Rated Z87+
ANSI/ISEA Z87.1-2015	Visible Light L8
ANSI/ISEA Z87.1-2015	Infrared Radiation R10
ANSI/ISEA Z87.1-2015	Welding Filter Shade W8
ANSI/ISEA Z87.1-2015	UltraViolet Radiation U6
STOCK	✓







# HAND PROTECTION

A hand injury can impact a worker's ability to perform a job related duty, as well as restrict their daily routines outside of work. The following section features some of our stock glove, mittens, and hand pads that offer various levels of protection from thermal and mechanical hazards. We understand that finding the best hand solutions can be difficult. Contact us today to learn more about thermal and mechanical hand protection and finding the right solution.

**Straight Thumb (G51)** gloves are ideal for applications requiring dexterity and the need for a strong grip.

**Winged Thumb (G64)** gloves are designed to provide protection when holding something in the palm of the hand.

**Ambidextrous (G43/G44/G45)** allow both sides to be used, helping to extend the life of the glove (not available in all materials).

What is the maximum temperature that the glove or mitten can endure?

This is the most commonly asked question regarding our hand protection. It is difficult to give an exact temperature range because heat resistance is so strongly dependent on 3 outside factors: duration of contact, recognizing the shape and weight of objects, and frequency of use. Recognizing this difficulty in selecting the proper glove for each application, we have provided a hand protection selection guide on the following page.

## SELECTING THE PROPER GLOVE, MITT, OR HAND PAD

Selecting the correct PPE is the first step to getting the job done right. The information available for gloves, mitts, and hand pads is often misquoted or misleading. A common challenge when selecting thermal hand protection is understanding the temperature ratings for these products and how they relate to your work environment.



Scan the QR code to learn more about temperature ratings and selecting the appropriate hand protection from our safety apparel experts.

## OUR TEMPERATURE RATINGS

Many manufacturers list the temperatures at which hand protective fabrics begins to fail. This however does not indicate the hand protection's ability to protect the user from 2nd and 3rd degree burns. Simply listing a fabric's failure temperature can be misleading and does not give a true picture of the protective performance. ►

That is why we worked with an independent 3rd party testing laboratory to determine the true protective performance of our gloves for contact heat. We tested our hand protection in accordance to ANSI/ISEA 105, American National Standard for Hand Protection Selection Criteria to determine the maximum contact temperature at which each of our hand protection products protect against 2nd and 3rd degree burns.



TEMPERATURE RATING AND HEAT LEVEL



1000°F  
**\*LEVEL 6**

600°F  
**\*LEVEL 5**

500°F  
**\*LEVEL 4**

395°F  
**\*LEVEL 3**

285°F  
**\*LEVEL 2**

GLOVE BY PRODUCT CODE	TIME TO 2ND DEGREE BURN	*CUT LEVEL	*ABRASION LEVEL	*PUNCTURE LEVEL
M60WHGH01213	25.26 seconds			
M60ZPRH01014	19.88 seconds	Level 4 • 2441 grams		
M11TCVB02213	19.32 seconds	A7 • 4722 grams	Level 4 • 5036 cycles	Level 3 • 79.8 newtons
G51TCVB11514	19.32 seconds	Level 5 • 5366 grams	Level 4 • 3719 cycles	Level 4 • 104 newtons
DJXGAR1705SPEC2	18.70 seconds	Level 3 • 1127		
DJXG705185XL	18.70 seconds	Level 3 • 1127		
DJXG705165XL	18.70 seconds	Level 3 • 1127		
DJXG1788DBWLSP	17.64 seconds			
M11TCRH14	25.16 seconds	A7 • 4722 grams	Level 4 • 5036 cycles	Level 4 • 79.8 newtons
G64TCR0114	25.16 seconds	Level 5 • 5366 grams	Level 4 • 3719 cycles	Level 4 • 104 newtons
G51PBRW13714	20.82 seconds	Level 4 • 3229 grams		
G51TCNL14	20.06 seconds	Level 5 • 5366 grams	Level 4 • 3719 cycles	Level 4 • 104 newtons
G64TCR0814	19.42 seconds	Level 5 • 5366 grams	Level 4 • 3719 cycles	Level 4 • 104 newtons
GO2CA	17.65 seconds	Level 3 • 1438 grams		
G64PBVB07214	17.26 seconds	Level 4 • 3229 grams		
M11TCVB13	22.38 seconds	A7 • 4722 grams	Level 4 • 5036 cycles	Level 4 • 79.8 newtons
G51TCVB11614	22.38 seconds	A7 • 4722 grams	Level 4 • 5036 cycles	Level 4 • 79.8 newtons
G51TCVB14	22.38 seconds	A7 • 4722 grams	Level 4 • 5036 cycles	Level 4 • 79.8 newtons
G45KTSR12	19.82 seconds	Level 4 • 1542 grams		
G43KTSRF12	19.82 seconds	Level 4 • 1542 grams		
G64TCVBGC14	19.12 seconds	A7 • 4722 grams	Level 4 • 5036 cycles	Level 4 • 79.8 newtons
G51TCGH07214	19.12 seconds	A7 • 4722 grams	Level 4 • 5036 cycles	Level 4 • 79.8 newtons
G45RTRF01012	19.12 seconds	Level 4 • 2538 grams		
G45RTRF12	19.12 seconds	Level 4 • 2538 grams		
G44RTRF01012	19.12 seconds	Level 4 • 2538 grams		
G44RTRF12	19.12 seconds	Level 4 • 2538 grams		
G43RTRF01012	19.12 seconds	Level 4 • 2538 grams		
G43RTRF12	19.12 seconds	Level 4 • 2538 grams		
G51MLLW00214	18.48 seconds	Level 1 • 352 grams	Level 4 • 6998 cycles	Level 5 • 205 newtons
DJXG465	27.90 seconds			
DJXGSP382	29.44 seconds			
DJXGSP382S-J	27.90 seconds			
DJXG395	27.90 seconds			

ANSI/ISEA 105 provides for the ability to rate a glove for contact heat up to 600°F (Level 5). Many of our hand protection products exceed 600°F. As a result, we worked with an independent 3rd party testing laboratory to develop a higher contact heat level up to 1000°F. We call this Level 6. Gloves that meet this requirement are shown in the table above.

\*Heat Level, Cut Level, Abrasion Level, and Puncture Level per ANSI/ISEA 105-2011





G51TCGH07214

**THERMOBEST™ GLOVE**

- 22 oz. Thermobest™
- 12 oz. Knitted Wool/Cotton Liner
- 19 oz. cuff
- Straight thumb

\*Test info for palm portion only

ANSI/ISEA 105	HEAT	Level 4   19.12 seconds @ 500°F
ANSI/ISEA 105-16	CUT	A7   4722 grams
ANSI/ISEA 105-16	PUNCTURE	Level 3   79.8 Newtons
ANSI/ISEA 105-16	ABRASION	Level 4   5036 Cycles
LENGTH		14"
SIZE		Large
STOCK		✓



G64TCVBGC14

**THERMOBEST™ GLOVE**

- 22 oz. Thermobest™
- 12 oz. Knitted Wool/Cotton Liner
- 19 oz. cuff
- Winged thumb

\*Test info for palm portion only

ANSI/ISEA 105	HEAT	Level 4   19.12 seconds @ 500°F
ANSI/ISEA 105-16	CUT	A7   4722 grams
ANSI/ISEA 105-16	PUNCTURE	Level 3   79.8 Newtons
ANSI/ISEA 105-16	ABRASION	Level 4   5036 Cycles
LENGTH		14"
SIZE		Large
STOCK		✓



G51TCVB14

**THERMOBEST™ GLOVE**

- 22 oz. Thermobest™
- 12 oz. Knitted Wool/Cotton Liner
- 8 oz. DuPont™ Kevlar® Twill Cuff
- Straight thumb

*\*Test info for palm portion only*

ANSI/ISEA 105	HEAT	Level 4   22.38 seconds @ 500°F
ANSI/ISEA 105-16	CUT	A7   4722 grams
ANSI/ISEA 105-16	PUNCTURE	Level 3   79.8 Newtons
ANSI/ISEA 105-16	ABRASION	Level 4   5036 Cycles
LENGTH		14"
SIZE		Large
STOCK		✓



G64TCSR0814

**THERMOBEST™ GLOVE**

- 22 oz. Thermobest™
- 10 oz. Knitted Wool/Cotton Liner
- 22 oz. Thermobest™ Cuff
- Winged thumb

*\*Test info for palm portion only*

ANSI/ISEA 105	HEAT	Level 5   19.42 seconds @ 600°F
ANSI/ISEA 105-16	CUT	A7   4722 grams
ANSI/ISEA 105-16	PUNCTURE	Level 3   79.8 Newtons
ANSI/ISEA 105-16	ABRASION	Level 4   5036 Cycles
LENGTH		14"
SIZE		Large
STOCK		✓



G51TCVB11514



**THERMOBEST™ GLOVE**

- 22 oz. Thermobest™
- 12 oz. Knitted Wool/Cotton Liner
- 8 oz. DuPont™ Kevlar® Twill Cuff
- Extra DuPont™ Nomex® Palm Patch
- Straight thumb

*\*Test info for palm portion only*

ANSI/ISEA 105	HEAT	Level 6   19.32 seconds @ 1000°F
ANSI/ISEA 105-16	CUT	A7   4722 grams
ANSI/ISEA 105-16	PUNCTURE	Level 3   79.8 Newtons
ANSI/ISEA 105-16	ABRASION	Level 4   5036 Cycles
LENGTH		14"
SIZE		Large
STOCK		✓



G64PBVB07214



**PBI/DUPONT KEVLAR GLOVE W/ GOLDENBEST™ CUFF**

- 22 oz. PBI/DuPont™ Kevlar®
- 12 oz. Knitted Wool/Cotton Liner
- 19 oz. Goldenbest™ Cuff
- Winged thumb

*\*Test info for palm portion only*

ANSI/ISEA 105	HEAT	Level 5   17.26 seconds @ 600°F
ANSI/ISEA 105	CUT	Level 4   3229 Grams
LENGTH		14"
SIZE		Large
STOCK		✓



G51PBRW13714

**PBI DUPONT KEVLAR GLOVE W/ THERMOBEST™ CUFF**

- 22 oz. PBI®/DuPont™ Kevlar®
- 10 oz. Knitted Wool/Cotton Liner
- 22 oz. Thermobest™ Cuff
- Straight thumb

*\*Test info for palm portion only*

ANSI/ISEA 105	HEAT	Level 5   20.82 seconds @ 600°F
ANSI/ISEA 105	CUT	Level 4   3229 Grams
LENGTH	14"	
SIZE	Large	
STOCK	✓	



G51PCLW13714

**PBI GLOVE W/ THERMOBEST™ CUFF**

- 45 oz. PBI®/DuPont™ Kevlar®
- 10 oz. Knitted Wool/Cotton Liner
- 22 oz. Thermobest™ Cuff
- Straight thumb

*\*Test info for palm portion only*

ANSI/ISEA 105	HEAT	Level 4   24.28 seconds @ 500°F
LENGTH	14"	
SIZE	Large	
STOCK	✓	





G43KTSRF12

**AMBIDEXTROUS DUPONT™ KEVLAR® TERRY GLOVE**

- 20 oz. DuPont™ Kevlar® Terrycloth
- 10 oz. Knitted Wool/Cotton Liner
- Ambidextrous

\*Test info for palm portion only

ANSI/ISEA 105	HEAT	Level 4   19.82 seconds @ 500°F
ANSI/ISEA 105	CUT	Level 4   1542 Grams
LENGTH		12"
SIZE		Large
STOCK		✓



G45KTSR12

**AMBIDEXTROUS DUPONT™ KEVLAR® TERRY GLOVE**

- 20 oz. DuPont™ Kevlar® Terrycloth
- 10 oz. Knitted Wool/Cotton Liner
- Ambidextrous

\*Test info for palm portion only

ANSI/ISEA 105	HEAT	Level 4   19.82 seconds @ 500°F
ANSI/ISEA 105	CUT	Level 4   1542 Grams
LENGTH		12"
SIZE		Jumbo
STOCK		✓



G\_ \_RTRF01012

**REVERSED DUPONT™ KEVLAR® TERRY GLOVE**

- 20 oz. Reversed DuPont™ Kevlar® Terrycloth
- 8 oz. Knitted Wool/Cotton Liner
- FR Brown Duck Cuff
- Ambidextrous

\*Test info for palm portion only

ANSI/ISEA 105	HEAT	Level 4   19.12 seconds @ 500°F
ANSI/ISEA 105	CUT	Level 4   2538 Grams
SIZE	44 (Regular), 43 (Large), 45 (Jumbo)	
STOCK	✓	



G\_ \_RTRF12

**REVERSED DUPONT™ KEVLAR® TERRY GLOVE**

- 20 oz. Reversed DuPont™ Kevlar® Terrycloth
- 8 oz. Knitted Wool/Cotton Liner
- 8 oz. DuPont™ Kevlar® Twill Cuff
- Ambidextrous

\*Test info for palm portion only

ANSI/ISEA 105	HEAT	Level 4   19.12 seconds @ 500°F
ANSI/ISEA 105	CUT	Level 4   2538 Grams
SIZE	44 (Regular), 43 (Large), 45 (Jumbo)	
STOCK	✓	



G46KTNL00213

**DUPONT™ KEVLAR® TERRY GLOVE - SMALL**

- 20 oz. DuPont™ Kevlar® Terrycloth
- 8 oz. DuPont™ Nomex® Felt Liner
- 20 oz. DuPont™ Kevlar® Terrycloth Cuff
- Ambidextrous
- Small size made to fit women & smaller people

\*Test info for palm portion only

ANSI/ISEA 105	HEAT	Level 4   >30 seconds @ 500°F
ANSI/ISEA 105	CUT	Level 4   2224 Grams
LENGTH		13"
SIZE		Small
STOCK		✓



G51KTLW00214

**DUPONT™ KEVLAR® TERRY GLOVE**

- 20 oz. DuPont™ Kevlar® Terrycloth
- 12 oz. Knitted Wool/Cotton Liner
- 8 oz. DuPont™ Kevlar® Twill Cuff
- Extra DuPont™ Kevlar® Felt Patch in palm
- Straight thumb

\*Test info for palm portion only

ANSI/ISEA 105	HEAT	Level 6   26.66 seconds @ 1000°F
ANSI/ISEA 105	CUT	Level 4   2169 Grams
LENGTH		14"
SIZE		Large
STOCK		✓



G02CA - \_\_



**CARBON ARMOUR™ KNIT GLOVE**

- Double Layer OPF-Carbon String Knit Blend
- Featuring the latest OPF fabric technology
- Provides protection from high heat and offers increased dexterity

*\*Test info for palm portion only*

ANSI/ISEA 105	CUT	Level 3   1438 grams
ANSI/ISEA 105	HEAT	Level 5   17.64 seconds @ 600°F
ASTM F2675/ASTM F2675M-13		51 cal/cm²
SIZE		Regular (RG), Large (LG), Extra Large (XL)
STOCK		✓



G51TCVB11614



**THERMOBEST™ SILVERS TC ALUMINIZED**

- 22 oz. Thermobest™
- 19 oz. Aluminized Thermobest™ Silvers back
- 12 oz. Knitted Wool/Cotton Liner
- Straight thumb

*\*Test info for palm portion only*

ANSI/ISEA 105	HEAT	Level 4   22.38 seconds @ 500°F
ANSI/ISEA 105-16	CUT	A7   4722 grams
ANSI/ISEA 105-16	PUNCTURE	Level 3   79.8 Newtons
ANSI/ISEA 105-16	ABRASION	Level 4   5036 Cycles
LENGTH		14"
SIZE		Large
STOCK		✓





G51TCNL14

**THERMOBEST™ SILVERS TC ALUMINIZED GLOVE**

- 22 oz. Thermobest™
- 13 oz. Aluminized OPF/Para-Aramid Back
- 8 oz. DuPont™ Nomex® Felt Liner
- Straight thumb

\*Test info for palm portion only

ANSI/ISEA 105	HEAT	Level 5   20.06 seconds @ 600°F
ANSI/ISEA 105-16	CUT	A7   4722 grams
ANSI/ISEA 105-16	PUNCTURE	Level 3   79.8 Newtons
ANSI/ISEA 105-16	ABRASION	Level 4   5036 Cycles
LENGTH		14"
SIZE		Large
STOCK		✓



G64TCSR0114

**THERMOBEST™ SILVERS TC ALUMINIZED**

- 22 oz. Thermobest™
- 13 oz. Aluminized OPF/Para-Aramid Back
- 15 oz. Reversed Knitted Wool/Cotton Liner
- Winged thumb

\*Test info for palm portion only

ANSI/ISEA 105	HEAT	Level 5   25.16 seconds @ 600°F
ANSI/ISEA 105-16	CUT	A7   4722 grams
ANSI/ISEA 105-16	PUNCTURE	Level 3   79.8 Newtons
ANSI/ISEA 105-16	ABRASION	Level 4   5036 Cycles
LENGTH		14"
SIZE		Large
STOCK		✓



GO4H5VB17

**CARBON ARMOUR™ SILVERS H5 ALUMINIZED GLOVE**

- 11 oz. Aluminized OPF-Carbon Ripstop
- DuPont™ Kevlar® wool liner
- Hook and loop closure on cuff
- Leather patch on thumb
- Winged thumb

LENGTH	17"
SIZE	Large
MADE TO ORDER	



DJXG395

**ALUMINIZED RAYON GLOVE**

- 16 oz. Aluminized Rayon Back
- 10 oz. Knitted Wool/Cotton Liner
- Leather Palm
- Winged thumb

*\*Test info for palm portion only*

ANSI/ISEA 105	HEAT	Level 2   27.90 seconds @ 285°F*
LENGTH		13"
SIZE		Regular
STOCK		✓



DJXG1788DBWLSP

**ALUMINIZED THERMAL LEATHER GLOVE**

- 13 oz. Aluminized Leather Back
- 10 oz. Knitted Wool/Cotton Liner
- Leather Palm
- Extra Palm Patch
- Winged thumb

\*Test info for palm portion only

ANSI/ISEA 105	HEAT	Level 6   17.64 seconds @ 1000°F*
LENGTH		13"
SIZE		Regular
STOCK		✓



DJXGSP382

**CARBON ARMOUR™ SILVERS ALUMINIZED GLOVE**

- 18 oz. Aluminized OPF-Carbon/DuPont™ Kevlar® Back
- 10 oz. Knitted Wool/Cotton Liner
- Leather Palm
- Winged thumb
- Reinforced index finger and thumb crotch

\*Test info for palm portion only

ANSI/ISEA 105	HEAT	Level 2   29.44 seconds @ 285°F*
LENGTH		13"
SIZE		Regular
STOCK		✓



DJXG382S-J

**CARBON ARMOUR™ SILVERS ALUMINIZED GLOVE  
W/ ADJUSTABLE STRAP**

- 18 oz. Aluminized OPF-Carbon/DuPont™ Kevlar® Back
- 10 oz. Knitted Wool/Cotton Liner
- Adjustable leather strap
- Leather Palm
- Winged thumb
- Reinforced index finger and thumb crotch

*\*Test info for palm portion only*

ANSI/ISEA 105	HEAT	Level 2   27.90 seconds @ 285°F*
LENGTH		13"
SIZE		Regular (DJXG382S) Jumbo (DJXG382S-J)
STOCK		✓



G51MLLW00214

**ALUMINIZED RAYON GLOVE**

- 16 oz. Aluminized Rayon Back
- 10 oz. Knitted Wool/Cotton Liner
- Leather Palm
- Straight thumb

*\*Test info for palm portion only*

ANSI/ISEA 105	HEAT	Level 3   18.48 seconds @ 395°F*
ANSI/ISEA 105	CUT	Level 1   352 Grams*
ANSI/ISEA 105	PUNCTURE	Level 5   205 Newtons*
ANSI/ISEA 105	ABRASION	Level 4   6998 Cycles*
LENGTH		14"
SIZE		Large
STOCK		✓





DJXG705\_XL

**ALUMINIZED RAYON GLOVE**

- 16 oz. Aluminized Rayon Back
- 10 oz. Knitted Wool/Cotton Palm Liner, Cotton Twill Cuff Liner
- Thermal Leather Palm
- Palm Patch
- Snap adjustment at cuff
- Extra leather knuckle inner patch
- Straight thumb

\*Test data only for palm portion

ANSI/ISEA 105	HEAT	Level 6   18.70 seconds @ 1000°F*
ANSI/ISEA 105	CUT	Level 3   1127 Grams*
LENGTH		16.5" (DJXG705165XL) 18.5" (DJXG705185XL)
STOCK		✓



DJXGAR1705SPEC2

**ALUMINIZED RAYON GLOVE**

- 16 oz. Aluminized Rayon Back & Cuff
- 10 oz. Knitted Wool/Cotton Liner
- Thermal Leather Palm
- Palm Patch
- Hook & loop adjustment at cuff
- Straight thumb

\*Test data only for palm portion

ANSI/ISEA 105	HEAT	Level 6   18.70 seconds @ 1000°F*
ANSI/ISEA 105	CUT	Level 3   1127 Grams*
LENGTH		16.5"
SIZE		Large
STOCK		✓



M11TCVB13

**THERMOBEST™ MITTEN**

- 22 oz. Thermobest™
- 12 oz. Wool Liner
- 22 oz. Thermobest™ Cuff

*\*Test info for palm portion only*

ANSI/ISEA 105	HEAT	Level 4   22.38 seconds @ 500°F
ANSI/ISEA 105-16	CUT	A7   4722 grams
ANSI/ISEA 105-16	PUNCTURE	Level 3   79.8 Newtons
ANSI/ISEA 105-16	ABRASION	Level 4   5036 Cycles
LENGTH		13"
SIZE		Regular
STOCK		✓



M11TCRH14

**THERMOBEST™ MITTEN**

- 22 oz. Thermobest™
- 15 oz. Reversed Fonda Wool
- 22 oz. Thermobest™ Cuff

*\*Test info for palm portion only*

ANSI/ISEA 105	HEAT	Level 5   25.16 seconds @ 600°F
ANSI/ISEA 105-16	CUT	A7   4722 grams
ANSI/ISEA 105-16	PUNCTURE	Level 3   79.8 Newtons
ANSI/ISEA 105-16	ABRASION	Level 4   5036 Cycles
LENGTH		14"
SIZE		Regular
STOCK		✓



M11TCVB02213

**THERMOBEST™ MITTEN**

- 22 oz. Thermobest™
- 12 oz. Wool Liner
- 22 oz. Thermobest™ Cuff
- DuPont™ Nomex® felt palm patch

*\*Test info for palm portion only*

ANSI/ISEA 105	HEAT	Level 6   19.32 seconds @ 1000°F
ANSI/ISEA 105-16	CUT	A7   4722 grams
ANSI/ISEA 105-16	PUNCTURE	Level 3   79.8 Newtons
ANSI/ISEA 105-16	ABRASION	Level 4   5036 Cycles
LENGTH		13"
SIZE		Regular
STOCK		✓



M10TCXX10

**THERMOBEST™ MITTEN**

- 22 oz. Thermobest™
- Unlined
- Wear over Thermobest™ Mittens to help prolong their life by protecting them from wear and tear.

*\*Test info for palm portion only*

ANSI/ISEA 105	HEAT	Level 2   14.14 seconds @ 285°F
ANSI/ISEA 105-16	CUT	A7   4722 grams
ANSI/ISEA 105-16	PUNCTURE	Level 3   79.8 Newtons
ANSI/ISEA 105-16	ABRASION	Level 4   5036 Cycles
LENGTH		10"
SIZE		Jumbo
STOCK		✓



M60ZPRH01014

**COATED FIBERGLASS MITTEN**

- 40 oz. Coated fiberglass
- 15 oz. Wool Liner
- 40 oz. Coated fiberglass cuff
- DuPont™ Kevlar® thumb and palm patch

*\*Test info for palm portion only*

ANSI/ISEA 105	HEAT	Level 6   19.88 seconds @ 1000°F
ANSI/ISEA 105	CUT	Level 4   2441 Grams
LENGTH		14"
SIZE		Jumbo
STOCK		✓



M59ZPXX10

**COATED FIBERGLASS MITTEN COVER**

- 40 oz. Coated Fiberglass
- Unlined
- Wear over the Coated Fiberglass Mitten (M60ZPRH01014) to help prolong their life by protecting it from wear and tear.

*\*Test info for palm portion only*

ANSI/ISEA 105	HEAT	Level 3   7.88 seconds @ 395°F
ANSI/ISEA 105	CUT	Level 4   2441 Grams
LENGTH		10"
SIZE		Regular
STOCK		✓





M60WHGH01213

**FYBERBEST™ MITTEN**

- 48 oz. High Temp Fiberbest™
- Dual 8 oz. DuPont™ Nomex® 12 oz. Wool Liner
- 22 oz. Thermobest™ Cuff

*\*Test info for palm portion only*

ANSI/ISEA 105	HEAT	Level 6   25.26 seconds @ 1000°F
LENGTH		13"
SIZE		Regular
STOCK		✓



M59WHXX10

**FYBERBEST™ MITTEN COVER**

- 48 oz. High Temp Fiberbest™
- Unlined
- Wear over the Fiberbest™ Mitten (M60WHGH01213) to help prolong their life by protecting it from wear and tear.

*\*Test info for palm portion only*

ANSI/ISEA 105	HEAT	Level 3   7.88 seconds @ 395°F
LENGTH		10"
SIZE		Regular
STOCK		✓



M52PCLW00214

**DUPONT™ KEVLAR® MITTEN W/ CUFF PATCH**

- 45 oz. PBI/DuPont™ Kevlar®
- 10 oz. Wool Liner
- 22 oz. Thermobest™ Cuff
- 22 oz. PBI/DuPont™ Kevlar® Cuff Patch

*\*Test info for palm portion only*

ANSI/ISEA 105	HEAT	Level 4   24.28 seconds @ 500°F
LENGTH		14"
SIZE		Regular
STOCK		✓



P02TC8X8

**THERMOBEST™ HAND PAD**

- 22 oz. Thermobest™
- Wool felt insulation

ANSI/ISEA 105	HEAT	Level 6   >30 seconds @ 1000°F
ANSI/ISEA 105	CUT	Level 5   5366 Grams
ANSI/ISEA 105	PUNCTURE	Level 4   104 Newtons
ANSI/ISEA 105	ABRASION	Level 4   3719 Cycles
STOCK		✓

## INNOVATING FOR YOU

We are continuously working to utilize the latest fabrics to create new innovation safety products for our customers.

Stay up to date on our latest product innovations by visiting our website [www.thinkNSA.com](http://www.thinkNSA.com).



Scan the QR code with your mobile device to quickly connect with one of our safety apparel experts via email, live chat, or phone.



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