



NATIONAL  
SAFETY APPAREL®

# HEAT AND THERMAL

PROUDLY MANUFACTURING IN THE USA SINCE 1935



## 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

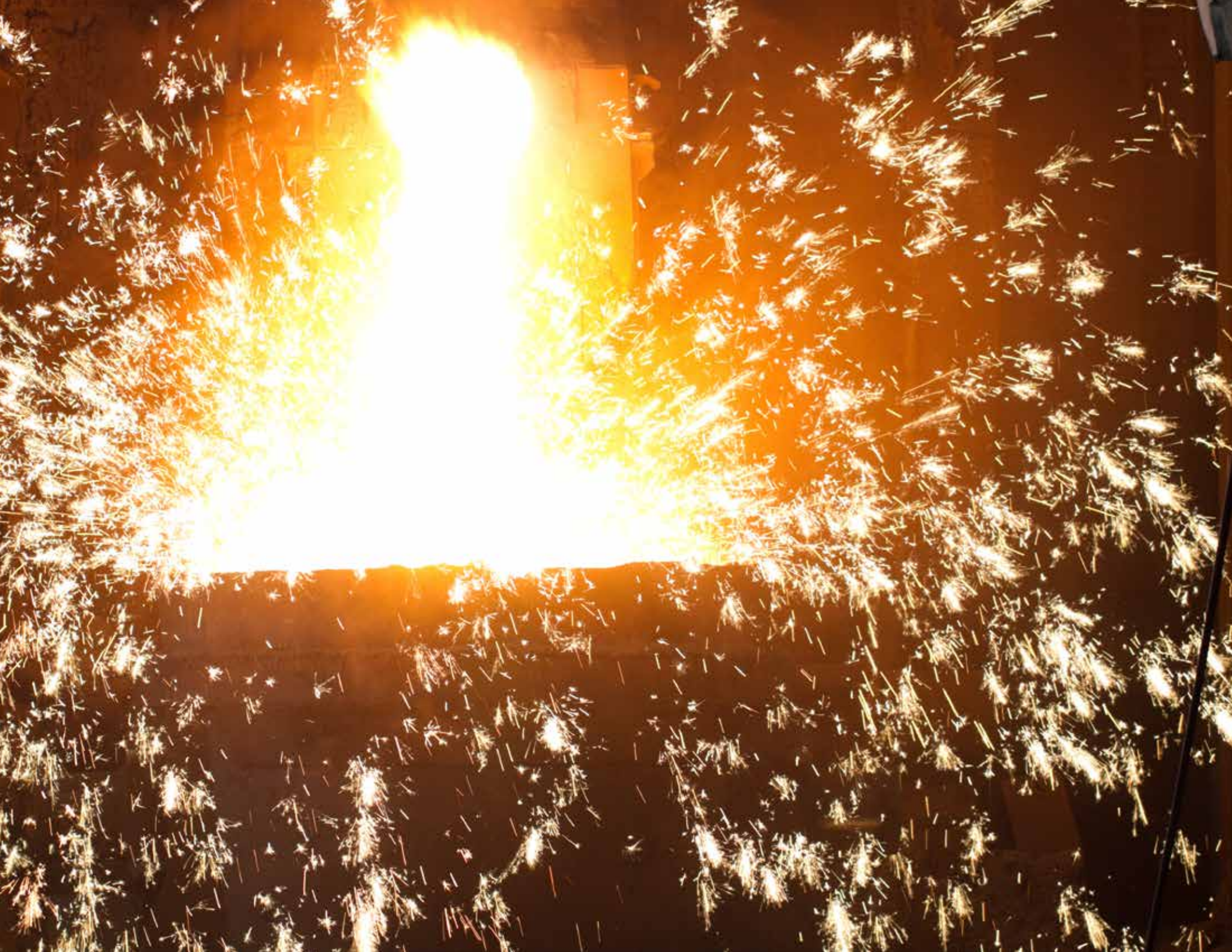
NSA is certified to ISO 9001:2008 with design.

### 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.



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# HEAT & THERMAL PROTECTION









# 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 meets all of the ASTM F1939 requirements.



NAVY WOOL COAT

C09WL\_\_30

- 32 oz. FR Wool
- FR Twill collar
- Inside left chest pocket
- Double layer shirt collar
- Hidden snap front closure

LENGTH	30"
SIZE	MD - 4X
STOCK	✓



GREY WOOL COAT

C09WN\_\_30

- 32 oz. FR Wool
- FR Twill collar
- Inside left chest pocket
- Double layer shirt collar
- Hidden snap front closure

LENGTH	30"
SIZE	MD - 4X
STOCK	✓



**CARBON ARMOUR™ JACKET**

**C07H3GCBG\_\_30**

- 8.6 oz. OPF Blend, Rip Stop
- Covered snap front closure
- Inside left chest pocket
- Snaps at wrist for adjustment
- Moisture wicking
- Exceptional tensile and tear strength

OSHA 1910.269	√
ASTM F1506-10a	√
NFPA 70E-2015	√
CSA Z462-15	√
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>
HRC	2
SIZE	MD - 3X
STOCK	√

**BODY PROTECTION**



**CARBON ARMOUR™ COVERALL**

**SPXHPCA0208\_ \_ \_ \_**

- 6.4 oz. OPF Blend, Twill
- Covered FR zip front closure
- Inset elastic waistband
- Action back for increased movement
- Two chest pockets with flaps and snap closures
- Moisture wicking

OSHA 1910.269	√
ASTM F1506-10a	√
NFPA 70E-2015	√
CSA Z462-15	√
Passes EN ISO 11611 A1, Class 2; A2, Class 2; 6.8 impact of spatter, Class 1; 6.9 Heat transfer (radiation), Class 1	
Anti-Static per EN 1149-5 (meets requirements for shielding factor and half decay time)	
ARC RATING	9.4 cal/cm <sup>2</sup>
HRC	2
SIZE	SM - 4X
LENGTH	RG (Regular), LN (Long)
STOCK	√

<b>SM</b> Small	<b>MD</b> Medium	<b>LG</b> Large	<b>XL</b> X-Large	<b>2X</b> 2X-Large	<b>3X</b> 3X-Large	<b>4X</b> 4X-Large	<b>RG</b> Regular	<b>LN</b> Long
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**\_ \_ = SIZE**

**BODY PROTECTION**



**ALUMINIZED OPF/PARA-ARMID APRON A02NL24X36**

- 19 oz. Aluminized OPF/Para-Aramid
- Leather strap with slide snap at waist and neck
- Provides protection from radiant heat, sparks, and molten metal splash hazards

Fabric passed ASTM F955 (Molten Iron at 2800°F)	
EN 531: 1996 Performance Levels A, B1, C4, D3, E3	
LENGTH	36"
STOCK	✓



**ALUMINIZED ACRYSil APRON A02AS24X\_ \_**

- 16 oz. Aluminized Acrysil
- Leather strap with slide snap at waist and neck
- Provides protection from radiant heat

LENGTH	36", 48"
STOCK	✓



**DELUXE ALUMINIZED SHORT COAT**

**C22NL\_\_30**

- 19 oz. Aluminized OPF/Para-Aramid
- Covered snap front closure
- Snaps at wrist for adjustments
- Aluminized vented back
- Under-arm eyelets for ventilation
- Split sleeves with snaps for easy fastening
- Provides protection from radiant heat, sparks, and molten metal splash hazards

Fabric passed ASTM F955 (Molten Iron at 2800°F)	
EN 531: 1996 Performance Levels A, B1, C4, D3, E3	
LENGTH	30"
SIZE	MD - 2X
STOCK	✓



**DELUXE ALUMINIZED LONG COAT**

**C22NL\_\_45**

- 19 oz. Aluminized OPF/Para-Aramid
- Covered snap front closure
- Snaps at wrist for adjustments
- Aluminized vented back
- Under-arm eyelets for ventilation
- Split sleeves with snaps for easy fastening
- Provides protection from radiant heat, sparks, and molten metal splash hazards

Fabric passed ASTM F955 (Molten Iron at 2800°F)	
EN 531: 1996 Performance Levels A, B1, C4, D3, E3	
LENGTH	45"
SIZE	MD - 2X
STOCK	✓

**MD**  
Medium

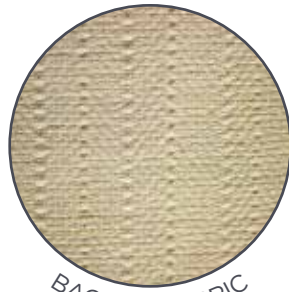
**LG**  
Large

**XL**  
X-Large

**2X**  
2X-Large

**\_\_ = SIZE**

**BODY PROTECTION**



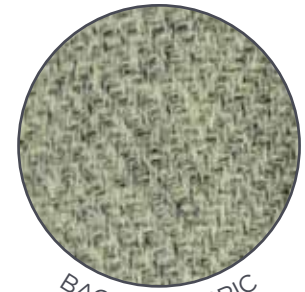
BACK OF FABRIC

**STANDARD ALUMINIZED COAT**

**C17AS\_\_50**

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

LENGTH	50"
SIZE	LG (Large), XL (Extra Large), 2X (2X Large)
STOCK	✓



BACK OF FABRIC

**ALUMINIZED COAT**

**C22NJ008\_\_45**

- 13 oz. Para-Aramid spun around an OPF core
- Covered snap front closure
- Green FR cotton back & shirt type collar
- Provides protection from radiant heat, sparks, and molten metal splash hazards

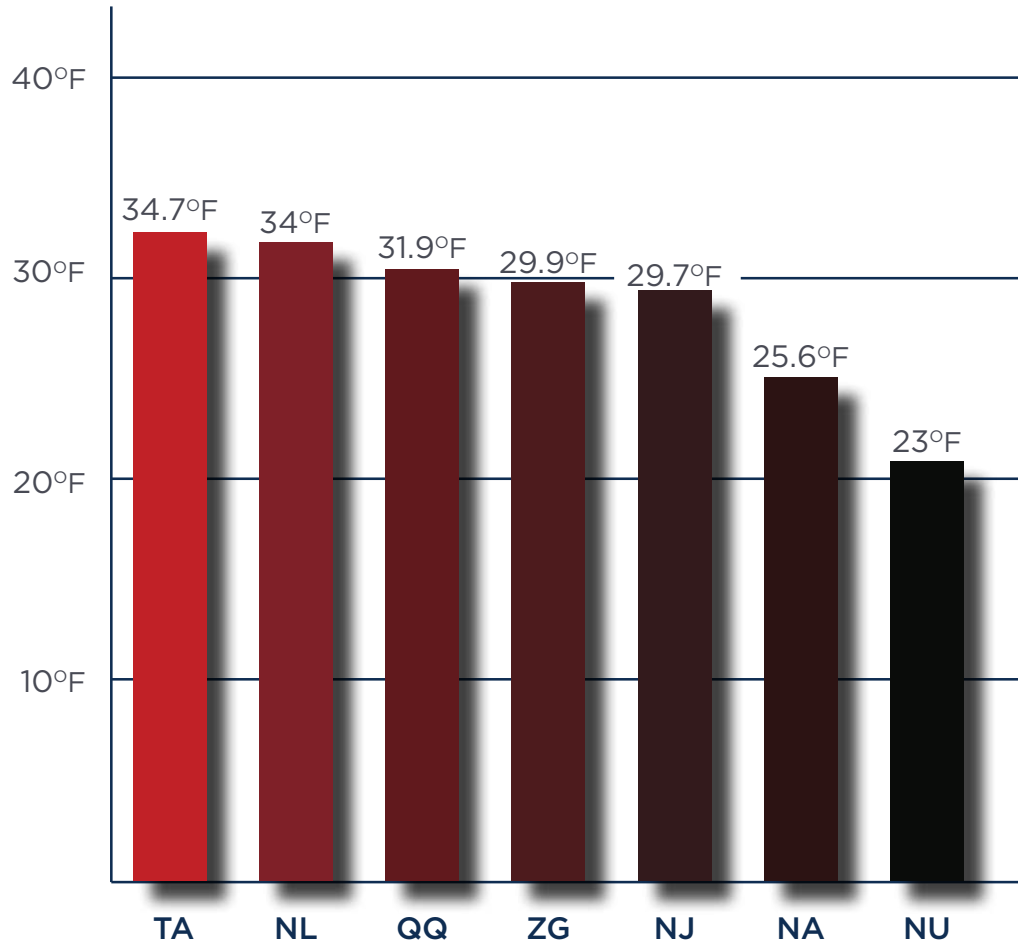
*Fabric passed ASTM F955 (Molten Iron at 2800°F)	
LENGTH	45"
SIZE	LG (Large), XL (Extra Large), 2X (2X Large)
STOCK	✓

*\*Test data only for aluminized portion*

# ASTM F955 TEST RESULTS

For over 3 decades, we have been testing high temperature fabrics for protection against molten metal. Our quality and protection requirements are second to none. The aluminized fabrics that we carry must be tested to and pass the most internationally stringent of tests for hazardous and molten metal environments. This test is ASTM F955, where 1 kg (2.2 lbs) of molten iron is poured on the fabric (\*test results for zinc and aluminium are also available for some products). This test assists in determining if the fabric can withstand harsh conditions. The results for our commonly requested aluminized fabrics are shown below.

*\*All aluminized products shown in this catalog are available in the fabrics to the right (made-to-order)*



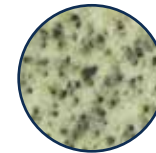
*\*Lower temperature indicates potential increased thermal protection*



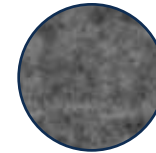
**TA** 19 oz. Aluminized Thermobest™



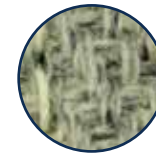
**NL** 19 oz. Aluminized OPF/Para-Aramid



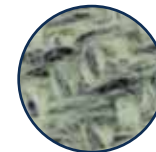
**QQ** 10 oz. Aluminized OPF/Para-Aramid Felt



**ZG** 12 oz. Aluminized OPF/Rayon Fleece (Grey)



**NJ** 13 oz. Aluminized OPF/DuPont™ Kevlar® (Core-Spun)



**NA** 18 oz. Aluminized OPF/DuPont™ Kevlar® (Core-Spun)



**NU** 13 oz. Aluminized OPF/Para-Aramid

BSBAV\_\_



BSTAVLS\_\_

**SILVER LINING FR™ BASE LAYERS**

- 6 oz. Silver Lining FR™
- Exceptionally soft & lightweight

OSHA 1910.269	√
ASTM F1506-10a	√
NFPA 70E-2015	√
CSA Z462-15	√
ASTM F1959	√
ASTM F2700	12.5 cal/cm <sup>2</sup> with spacer 10.9 cal/cm <sup>2</sup> without spacer
Passed ASTM F955 Molten Metal Performance when worn under aluminized clothing	
ARC RATING	12 cal/cm <sup>2</sup>
HRC	2
SIZE	MD - 4X
STOCK	√

BSBBK\_\_



BSTBKLS\_\_

**BLACK ICE FR™ BASE LAYERS**

- 7.7 oz. Black Ice FR™
- Exceptionally soft & lightweight

OSHA 1910.269	√
ASTM F1506-10a	√
NFPA 70E-2015	√
CSA Z462-15	√
ASTM F1959	√
ASTM F2700	15.6 cal/cm <sup>2</sup> with spacer 12 cal/cm <sup>2</sup> without spacer
Passed ASTM F955 Molten Metal Performance when worn under aluminized clothing	
ARC RATING	15 cal/cm <sup>2</sup>
HRC	2
SIZE	MD - 4X
STOCK	√

**MD**  
Medium

**LG**  
Large

**XL**  
X-Large

**2X**  
2X-Large

**3X**  
3X-Large

**4X**  
4X-Large

\_\_ = SIZE





## BLACK ICE FR™ & SILVER LINING FR™ BASE LAYERS

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

We are pleased to bring you 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, Silver Lining FR™ provides an arc rating of 12 cal/cm<sup>2</sup>, HRC 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>, HRC 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 have passed the ASTM F955 test for molten iron (2900°F) when worn under aluminized clothing.

*DELUXE ALUMINIZED COAT (C22NL\_\_30) WORN  
OVER BLACK ICE FR™ MOCK TURTLENECK (BSTBKLS\_\_)*





# HEAD PROTECTION

Tally hoods, neck protectors, and aluminized hoods are some of our more common head protective items. Ranging from our traditional H58 style 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.



ALUMINIZED HOOD

H58TARG

- 19 oz. Aluminized Thermobest™
- Gold film cover for radiant heat protection
- Ratchet headgear included
- Heavy duty metal faceshield frame
- Provides protection from radiant heat, sparks, and molten metal splash hazards

Fabric passed ASTM F955 (Molten Iron at 2800°F)

STOCK

✓

*\*Clear polycarbonate faceshield (1 ZWW) and gold film (XO4GE007X11) replacements sold separately*



PREMIUM ALUMINIZED HOOD

H58NLHG

- 19 oz. Aluminized OPE/Para-Aramid
- Gold film cover for radiant heat protection
- Universal headgear included
- Heavy duty metal faceshield frame
- Provides protection from radiant heat, sparks, and molten metal splash hazards

EN 531:1996 Performance Levels A, B1, C4, D3, E3

Fabric passed ASTM F955 (Molten Iron at 2800°F)

STOCK

✓



TALLY HOOD

H74GW001

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

STOCK

✓



NECK PROTECTOR

H01GR003

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

STOCK

✓



I ZFSCGFLIP (Stock)

**GOLD TINTED SHIELD**

**H16XXCGFLIPUB**

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

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	✓



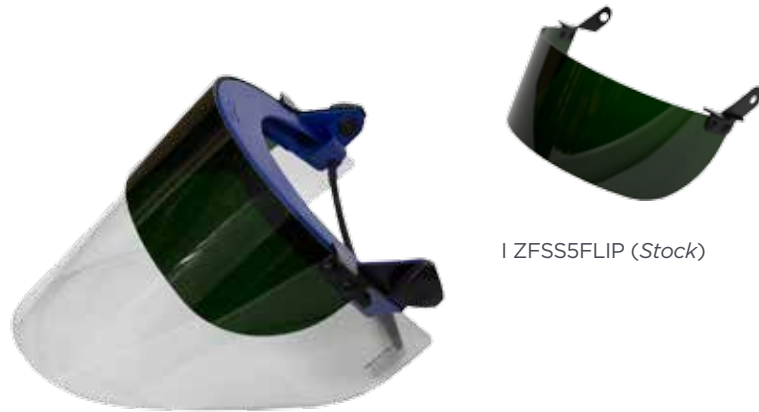
I ZFSC5FLIP (Stock)

**COBALT SHADE 5 SHIELD**

**H16XXCC5FLIPUB**

- Cobalt Shade 5 half shield with clear universal faceshield
- 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
- Cobalt Shade 5 half shield available without clear faceshield (I ZFSC5FLIP)

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)



I ZFSS8FLIP (Stock)

**GREEN SHADE 5 SHIELD**

**H16XXCS5FLIPUB**

- 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)

ANSI/ISEA Z49.1	Shade 5
ANSI/ISEA Z871-2015	Impact Rated Z87+
ANSI/ISEA Z871-2015	Visible Light L5
ANSI/ISEA Z871-2015	Infrared Radiation R6
ANSI/ISEA Z871-2015	Welding Filter Shade W5
ANSI/ISEA Z871-2015	UltraViolet Radiation U2
STOCK	✓

**GREEN SHADE 8 SHIELD**

**H16XXCS8FLIPUB**

- 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)

ANSI/ISEA Z49.1	Shade 8
ANSI/ISEA Z871-2015	Impact Rated Z87+
ANSI/ISEA Z871-2015	Visible Light L8
ANSI/ISEA Z871-2015	Infrared Radiation R10
ANSI/ISEA Z871-2015	Welding Filter Shade W8
ANSI/ISEA Z871-2015	UltraViolet Radiation U6
STOCK	✓

**KNIT HOOD**

**H31NK**



- 6 oz. DuPont™ Nomex®
- Inherently flame resistant
- Double layer top
- Single layer bib
- Durable and lightweight
- Designed for comfort and flexibility

STOCK	✓
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**SHORT STYLE HOOD**

**H12NK**



- 6 oz. DuPont™ Nomex®
- Inherently flame resistant
- Single layer
- Larger face opening
- Durable and lightweight
- Designed for comfort and flexibility

STOCK	✓
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**DOUBLE LAYER HOOD**

**H61NK**



- 6 oz. DuPont™ Nomex®
- Inherently flame resistant
- Double layer top
- Double layer bib
- Durable and lightweight

OSHA 1910.269	✓
ASTM F1506-10a	✓
NFPA 70E-2015	✓
CSA Z462-15	✓
ARC RATING	10 cal/cm <sup>2</sup>
HRC	2
STOCK	✓

**HALF FACE OPENING HOOD**

**H30NK**



- 6 oz. DuPont™ Nomex®
- Inherently flame resistant
- Double layer top
- Single layer bib
- Durable and lightweight
- Designed for comfort and flexibility

STOCK	✓
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**HOOD W/ EYE HOLES**

**H41NK**

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

STOCK	✓
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**HOOD W/ SMALL EYE HOLES**

**H43NK**

- 6 oz. DuPont™ Nomex®
- Inherently flame resistant
- Triple layer top
- Double layer bib
- Small eye hole openings
- Durable and lightweight
- Designed for comfort, flexibility, and increased protection

STOCK	✓
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**HOOD W/ LONG BIB**

**H67NK**

- 6 oz. DuPont™ Nomex®
- Inherently flame resistant
- Double layer top
- Single layer bib
- Longer bib for the ability to tuck into shirt for added protection
- Durable and lightweight

STOCK	✓
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**KNIT HOOD**

**H61MH**

- 6 oz. Knit DuPont™ Nomex®/Modacrylic
- Inherently flame resistant
- Double layer
- Durable and lightweight
- Designed for comfort and flexibility

OSHA 1910.269	✓
ASTM F1506-10a	✓
NFPA 70E-2015	✓
CSA Z462-15	✓
ARC RATING	16 cal/cm <sup>2</sup>
HRC	2
STOCK	✓



**DOUBLE LAYER HOOD**

**H61RK**



- 6 oz. OPF/Para-Aramid Blend
- Inherently flame resistant
- Double layer
- Durable and lightweight
- Designed for comfort and flexibility

OSHA 1910.269	√
ASTM F1506-10a	√
NFPA 70E-2015	√
CSA Z462-15	√
ARC RATING	27 cal/cm <sup>2</sup>
HRC	3
STOCK	√

**DOUBLE LAYER HOOD**

**H31PK**



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

STOCK	√
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**FR KNIT BALACLAVA**

**H18CX**



- 7 oz. OPF Blend
- Double layer
- Durable and lightweight
- Large face opening

OSHA 1910.269	√
ASTM F1506-10a	√
NFPA 70E-2015	√
CSA Z462-15	√
ARC RATING	30 cal/cm <sup>2</sup>
HRC	3
STOCK	√

**FR KNIT BALACLAVA**

**H25CX**



- 7 oz. OPF Blend
- Double layer
- Durable and lightweight
- Wide cut face opening

OSHA 1910.269	√
ASTM F1506-10a	√
NFPA 70E-2015	√
CSA Z462-15	√
ARC RATING	30 cal/cm <sup>2</sup>
HRC	3
STOCK	√



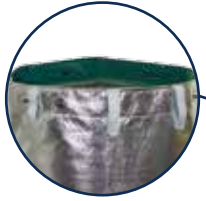
A photograph of an industrial facility, likely a steel mill, with a worker visible in the lower-left background. The scene is dimly lit with warm, orange-toned lighting. The worker is wearing a yellow hard hat and is positioned near a large, circular industrial tank or furnace. The background shows complex metal structures, including stairs and railings, and large rectangular panels.

# LEG & ARM 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 is the difference between Thermobest™ and OPF/Para-Aramid?

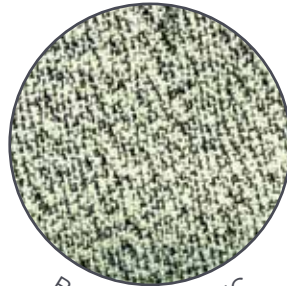
Thermobest™ is a proprietary blend of Kevlar® and fiberglass that provides increased molten metal splash and radiant heat protection for applications that require durability in harsh environments. OPF/Para-Aramid is a combination of Kevlar® and O-Pan. This combination makes it capable of providing increased molten metal splash and radiant protection for longer durations.



Leather belt loops and suspender buttons on outside waist.



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



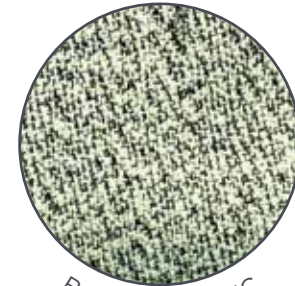
BACK OF FABRIC

**ALUMINIZED PANTS**

**T45NL\_\_X32**

- 19 oz. Aluminized OPF/Para-Aramid
- Reinforced seat seams, belt loops, and a snap closure
- Trouser style over pant
- Provides protection from radiant heat, sparks, and molten metal splash hazards

Passed ASTM F955 (Molten Iron at 2800°F)	
EN 531: 1996 Performance Levels A, B1, C4, D3, E3	
SIZE	MD - 2X
STOCK	✓



BACK OF FABRIC

**ALUMINIZED CHAPS**

**L40NLNL\_\_**

- 19 oz. Aluminized OPF/Para-Aramid
- Leather strap at waist with belt buckle for adjustment
- Leather crotch reinforcement
- Aluminized foot flap
- Provides protection from radiant heat, sparks, and molten metal splash hazards

Passed ASTM F955 (Molten Iron at 2800°F)	
EN 531: 1996 Performance Levels A, B1, C4, D3, E3	
LENGTH	38", 40"
STOCK	✓

**ALUMINIZED SPATS**

L09TATAVCXX\_ \_

- 19 oz. Aluminized Thermobest™
- FR Hook & loop closure
- Aluminized foot flap
- Fits over work boot
- Provides protection from radiant heat, sparks, and molten metal splash hazards

Passed ASTM F955 (Molten Iron at 2800°F)	
SIZE	LG (Large)
STOCK	✓



**ALUMINIZED LEGGINGS**

L05TATAVCXX\_ \_

- 19 oz. Aluminized Thermobest™
- FR Hook & loop closure
- Aluminized foot flap
- Fits over work boot
- Provides protection from radiant heat, sparks, and molten metal splash hazards

Passed ASTM F955 (Molten Iron at 2800°F)	
SIZE	LG (Large), XL (Extra Large)
STOCK	✓

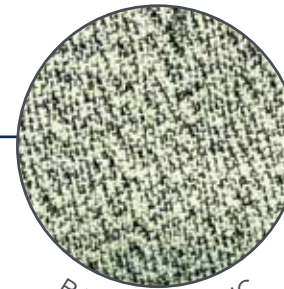


**ALUMINIZED LEGGINGS**

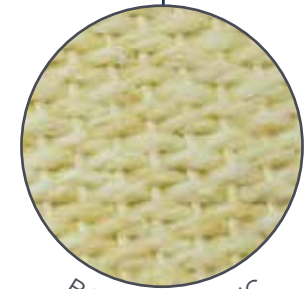
L05NLNLVCXX\_ \_

- 19 oz. Aluminized OPF/Para-Aramid
- FR Hook & loop closure
- Aluminized foot flap with soft steel frame
- Fits over work boot
- Provides protection from radiant heat, sparks, and molten metal splash hazards

Passed ASTM F955 (Molten Iron at 2800°F)	
EN 531: 1996 Performance Levels A, B1, C4, D3, E3	
SIZE	LG (Large), XL (Extra Large)
STOCK	✓



BACK OF FABRIC



BACK OF FABRIC

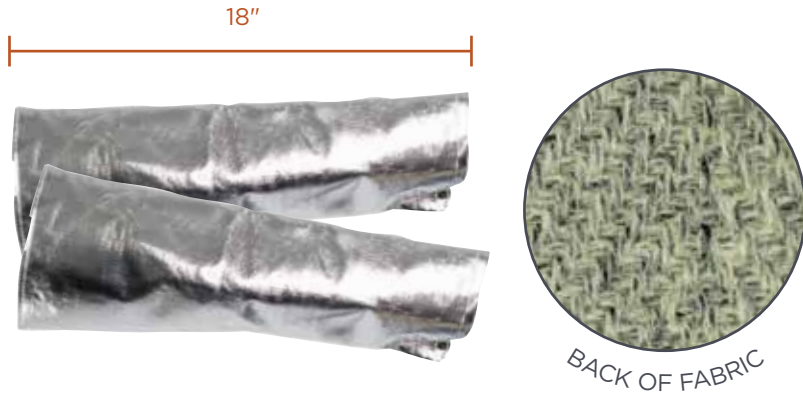
**MD**  
Medium

**LG**  
Large

**XL**  
X-Large

**2X**  
2X-Large

\_ \_ = SIZE

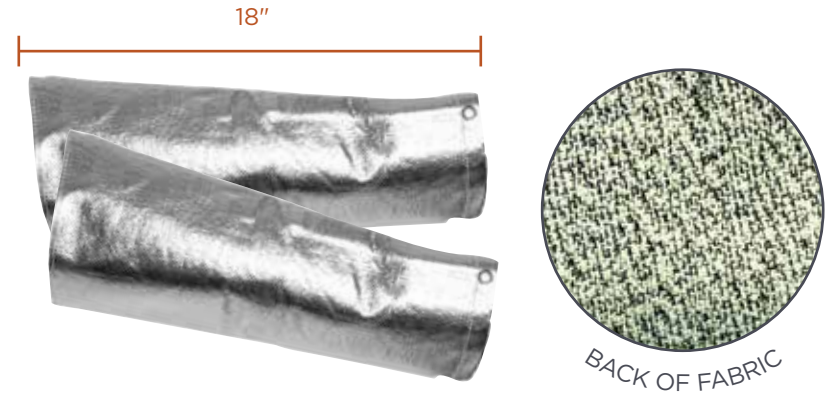


**ALUMINIZED SLEEVES**

**S02NJ18**

- 13 oz. Aluminized Para-Aramid
- Snap wrist closure
- Provides protection from radiant heat, sparks, and molten metal splash hazards

EN 531: 1996 Performance Levels A, B1, C4, D3, E3	
LENGTH	18"
SIZE	Regular
STOCK	✓



**ALUMINIZED SLEEVES**

**S02NL18**

- 19 oz. Aluminized OPF/Para-Aramid
- Snap wrist closure
- Open top
- Provides protection from radiant heat, sparks, and molten metal splash hazards

EN 531: 1996 Performance Levels A, B1, C4, D3, E3	
LENGTH	18"
SIZE	Regular
STOCK	✓

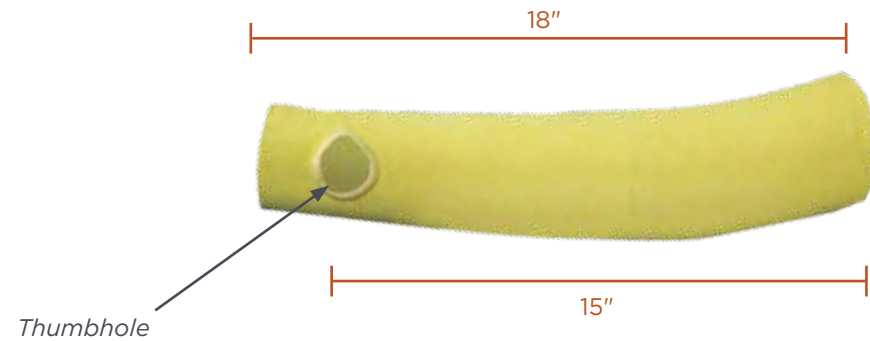


**KNIT SLEEVE**

**S00KN18**

- Double Layer DuPont™ Kevlar® Knit
- Stretches for a comfortable fit
- Fabric provides comfort with easy full range of motion

ASTM F1790-97	GRAMS	1443 Grams
ANSI/ISEA 105	CUT	Level 3
ANSI/ISEA 105	PUNCTURE	Level 5
ANSI/ISEA 105	ABRASION	Level 2
LENGTH		18"
SIZE		Regular
STOCK		✓

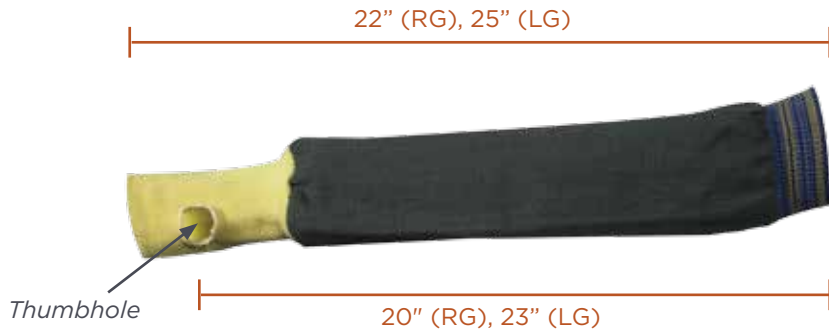


**KNIT SLEEVE W/ THUMBHOLE**

**S00KN0318**

- Double Layer DuPont™ Kevlar® Knit
- Thumbhole for added coverage of the palm & back of hand
- Stretches for a comfortable fit
- Fabric provides comfort with easy full range of motion

ASTM F1790-97	GRAMS	1443 Grams
ANSI/ISEA 105	CUT	Level 3
ANSI/ISEA 105	PUNCTURE	Level 5
LENGTH		18"
SIZE		Regular
STOCK		✓



**CARBON ARMOUR™ SLEEVE** S02H3GC01\_\_

- 8.6 oz. OPF Blend
- DuPont™ Kevlar® Knit Wrist with thumbhole
- Thumbhole for added coverage of the palm & back of hand
- High resistance to pin holes
- Exceptional tensile and tear strength
- Moisture wicking

LENGTH	20" (RG) or 23" (LG)
SIZE	RG (Regular), LG (Large)
STOCK	✓



**CARBON ARMOUR™ SLEEVE** S02H2GC00\_\_

- 6.4 oz. OPF Blend
- High resistance to pin holes
- Exceptional tensile and tear strength
- Moisture wicking

LENGTH	18" (RG) or 21" (LG)
SIZE	RG (Regular), LG (Large)
STOCK	✓



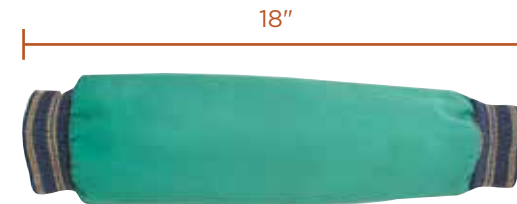


**FR TUFFWELD™ SLEEVE**

**S02TW00RG**

- 8.5 oz. Tuffweld™
- Blue elastic on both ends for added comfort

LENGTH	18"
SIZE	Regular
STOCK	✓

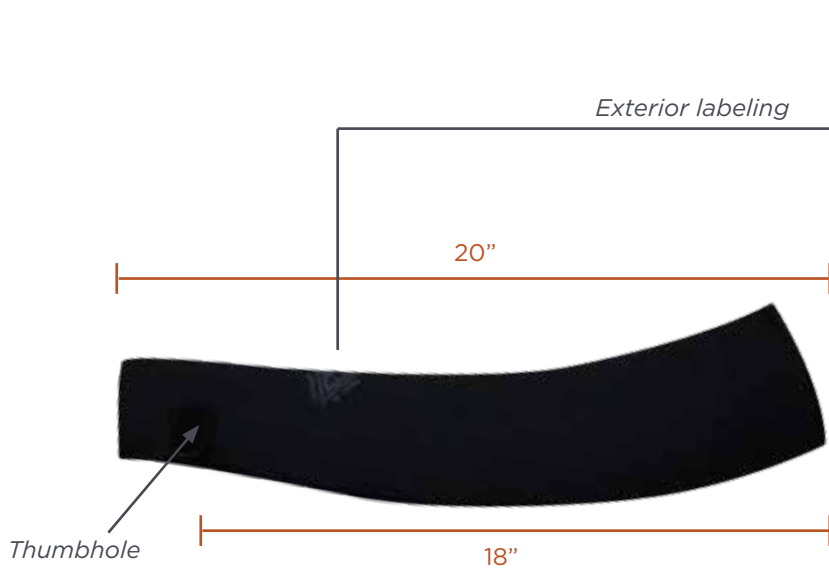


**FR GREEN SLEEVE**

**S02GR00RG**

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

LENGTH	18"
SIZE	Regular
STOCK	✓



**CARBON ARMOUR™ KNIT SLEEVE** S00CA0318

- OPF Based String Knit Fabric
- Thumbhole for added coverage of the palm & back of hand
- Knit fabric for comfortable fit
- Inherently flame resistant
- Stretchable fabric for flexibility and easy range of motion

ANSI/ISEA 105	HEAT	Level 2   15.6 seconds @ 284°F
LENGTH		18"
STOCK		✓



*\*Wear CARBON ARMOUR™ Knit Glove (G02CA or G02CAXL) with our CARBON ARMOUR™ Knit Sleeve (S00CA0318) for extra coverage and protection. Learn more about our CARBON ARMOUR™ Knit Glove on page 41.*

## DID YOU KNOW...

The most thermally protective fabrics utilize 'OPF' (also commonly referred to as 'O-PAN fibers').

OPF stands for "Oxidized Polyacrylonitrile Fibers", which is a precursor to carbon fibers. Carbon fibers are used commonly in reinforced, lightweight composite materials for everything from bikes and cars to aircraft.

Oxidized PAN fibers are thermally stabilized to have a carbon content of 60-65%. This provides for increased protective textile characteristics such as:

- High LOI value (limiting oxygen index)
- Low thermal conductivity - increased 'thermal blocking'
- High thermal stability
- Increased flame resistant characteristics
- Increased textile processing ability

You'll see throughout this catalog that many of our products utilize fabrics with blends of OPF to take advantage of these increased thermal and flame resistant characteristics.



OPF (Oxidized Polyacrylonitrile Fibers) provides increased protective textile characteristics such as high thermal stability and low thermal conductivity.





# 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 hazards. We understand that finding the right hand protection product can be difficult. Contact us today to learn more about thermal 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 often-asked question regarding our gloves and mittens. It is difficult to give an exact temperature range because heat resistance is so strongly dependent on 3 outside factors: duration of contact, shape of the object, and frequency of use. Recognizing this difficulty in selecting the proper glove for each application, we have provided a selection guide on the following page.

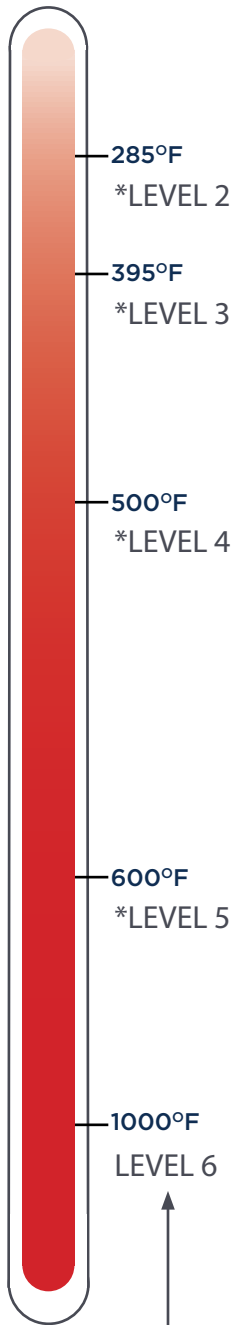
# OUR TEMPERATURE RATINGS

Many manufacturers list the temperature at which the glove fabric begins to fail. This however does not indicate the glove'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 gloves in accordance to ANSI/ISEA 105, American National Standard for Hand Protection Selection Criteria to determine the maximum contact temperature at which each glove and mitten protects against 2nd and 3rd degree burns.



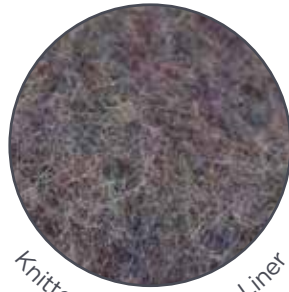
TEMPERATURE RATING AND HEAT LEVEL



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



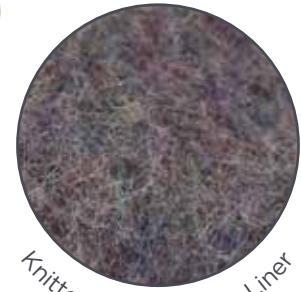
Knitted Wool/Cotton Liner

**THERMOBEST™ GLOVE**

**G51TCGH07214**

- 22 oz. Thermobest™
- 12 oz. Knitted Wool/Cotton Liner
- 19 oz. Goldenbest™ Cuff
- Straight thumb
- Provides thermal & cut protection

ANSI/ISEA 105	HEAT	Level 4   19.12 seconds @ 500°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
LENGTH		14"
SIZE		Large
STOCK		✓



Knitted Wool/Cotton Liner

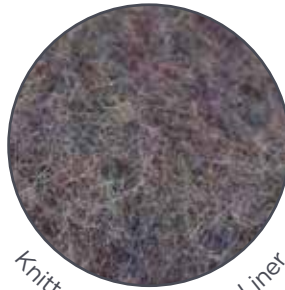
**THERMOBEST™ GLOVE**

**G64TCVBGC14**

- 22 oz. Thermobest™
- 12 oz. Knitted Wool/Cotton Liner
- 19 oz. Goldenbest™ Cuff
- Winged thumb
- Provides thermal & cut protection

ANSI/ISEA 105	HEAT	Level 4   19.12 seconds @ 500°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
LENGTH		14"
SIZE		Large
STOCK		✓





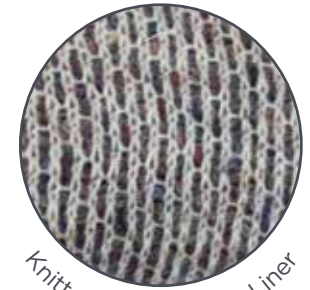
Knitted Wool/Cotton Liner

**THERMOBEST™ GLOVE**

**G51TCVB14**

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

ANSI/ISEA 105	HEAT	Level 4   22.38 seconds @ 500°F
ANSI/ISEA 105	CUT	Level 4   5366 Grams
ANSI/ISEA 105	PUNCTURE	Level 4   104 Newtons
ANSI/ISEA 105	ABRASION	Level 4   3719 Cycles
LENGTH		14"
SIZE		Large
STOCK		✓



Knitted Wool/Cotton Liner

**THERMOBEST™ GLOVE**

**G64TCSR0814**

- 22 oz. Thermobest™
- 10 oz. Knitted Wool/Cotton Liner
- 22 oz. Thermobest™ Cuff
- Winged thumb
- Provides thermal & cut protection

ANSI/ISEA 105	HEAT	Level 5   19.42 seconds @ 600°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
LENGTH		14"
SIZE		Large
STOCK		✓



Knitted Wool/Cotton Liner

**THERMOBEST™ GLOVE**

**G51TCVB11514**

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

ANSI/ISEA 105	HEAT	Level 6   19.32 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
LENGTH		14"
SIZE		Large
STOCK		✓



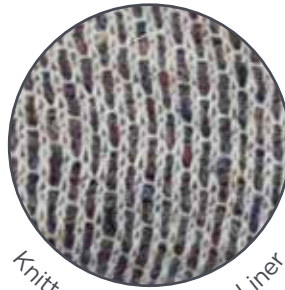
Knitted Wool/Cotton Liner

**PBI GLOVE W/ GOLDENBEST™ CUFF**

**G64PBVB07214**

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

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



Knitted Wool/Cotton Liner

**PBI GLOVE W/ THERMOBEST™ CUFF**

**G51PBRW13714**

- 22 oz. PBI/DuPont™ Kevlar®
- 10 oz. Knitted Wool/Cotton Liner
- 22 oz. Thermobest™ Cuff
- Straight thumb
- Provides thermal & cut protection

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



Knitted Wool/Cotton Liner

**PBI GLOVE W/ THERMOBEST™ CUFF**

**G51PCLW13714**

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

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



Knitted Wool/Cotton Liner

**AMBIDEXTROUS TERRY GLOVE**

**G43KTSRF12**

- 20 oz. DuPont™ Kevlar® Terrycloth
- 10 oz. Knitted Wool/Cotton Liner
- Ambidextrous
- Provides thermal & cut protection

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



Knitted Wool/Cotton Liner

**AMBIDEXTROUS TERRY GLOVE**

**G45KTSR12**

- 20 oz. DuPont™ Kevlar® Terrycloth
- 10 oz. Knitted Wool/Cotton Liner
- Ambidextrous
- Provides thermal & cut protection

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



REVERSED TERRY GLOVE

G\_\_RTRF01012

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

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		✓

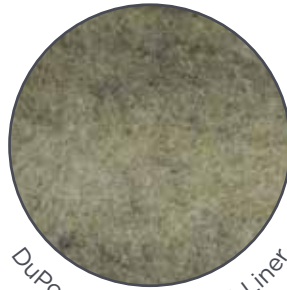


REVERSED TERRY GLOVE

G\_\_RTRF12

- 20 oz. Reversed DuPont™ Kevlar® Terrycloth
- 8 oz. Knitted Wool/Cotton Liner
- 8 oz. DuPont™ Kevlar® Twill Cuff
- Ambidextrous
- Provides thermal & cut protection

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		✓



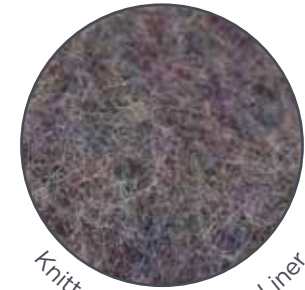
DuPont™ Nomex® Felt Liner

**AMBIDEXTROUS TERRY GLOVE**

**G46KTNL00213**

- 20 oz. DuPont™ Kevlar® Terrycloth
- 8 oz. DuPont™ Nomex® Felt Liner
- 20 oz. DuPont™ Kevlar® Terrycloth Cuff
- Ambidextrous
- Provides thermal & cut protection

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



Knitted Wool/Cotton Liner

**TERRY GLOVE**

**G51KTLW00214**

- 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
- Provides thermal & cut protection

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



CARBON ARMOUR™ KNIT GLOVE

G02CA, G02CAXL

- Double Layer OPF Based String Knit Fabric
- Inherently flame resistant
- Featuring the latest OPF fabric technology
- Provides protection from high heat and offers increased dexterity

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/cm <sup>2</sup>
SIZE		Regular (G02CA), XL (G02CAXL)
STOCK		✓

## INNOVATING FOR YOU

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

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



or scan this QR code with your mobile device to quickly connect with us.



Knitted Wool/Cotton Liner

ALUMINIZED GLOVE

G51TCVB11614

- 22 oz. Thermobest™
- 19 oz. Aluminized Thermobest™ Back
- 12 oz. Knitted Wool/Cotton Liner
- Straight thumb
- Aluminized back provides radiant heat & molten metal protection

ANSI/ISEA 105	HEAT	Level 4   22.38 seconds @ 500°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*
LENGTH		14"
SIZE		Large
STOCK		✓

\*Test data only for palm portion



DuPont™ Nomex® Felt Liner

ALUMINIZED GLOVE

G51TCNL14

- 22 oz. Thermobest™
- 13 oz. Aluminized OPF/Para-Aramid Back
- 8 oz. DuPont™ Nomex® Felt Liner
- Straight thumb
- Aluminized back provides radiant heat & molten metal protection

ANSI/ISEA 105	HEAT	Level 5   20.06 seconds @ 600°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*
LENGTH		14"
SIZE		Large
STOCK		✓

\*Test data only for palm portion





**ALUMINIZED GLOVE**

**G64TCSR0114**

- 22 oz. Thermobest™
- 13 oz. Aluminized OPF/Para-Aramid Back
- 15 oz. Reversed Knitted Wool/Cotton Liner
- Winged thumb
- Aluminized back provides radiant heat & molten metal protection

ANSI/ISEA 105	HEAT	Level 5   25.16 seconds @ 600°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*
LENGTH		14"
SIZE		Large
STOCK		✓

\*Test data only for palm portion

**INSIDE YOUR GLOVE**

You will find one of these options:



**G51TCVB11614** - Lined with Fonda (wool/cotton knit) with the wool side facing your hand.

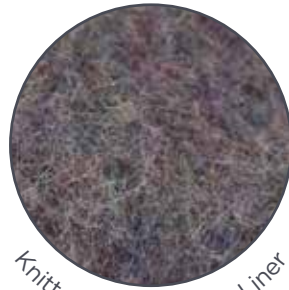


**G51TCNL14** - Lined with DuPont™ Nomex® Felt.



**G64TCSR0114** - Lined with Fonda, with the cotton knit side facing your hand.

Contact us for customized products and additional options.



Knitted Wool/Cotton Liner

**LEATHER GLOVE W/ RAYON BACK**

**DJXG395**

- Leather Palm
- Aluminized Rayon Back
- Knitted Wool/Cotton Liner
- Winged thumb
- Aluminized back provides radiant heat & molten metal protection

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

\*Test data only for palm portion



Knitted Wool/Cotton Liner

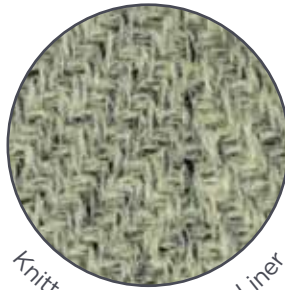
**LEATHER GLOVE W/ ALUMINIZED BACK**

**DJXG1788DBWLSP**

- Leather Palm
- 13 oz. Aluminized Leather Back
- 10 oz. Knitted Wool/Cotton Liner
- Extra Palm Patch
- Winged thumb
- Aluminized back provides radiant heat protection

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

\*Test data only for palm portion



Knitted Wool/Cotton Liner

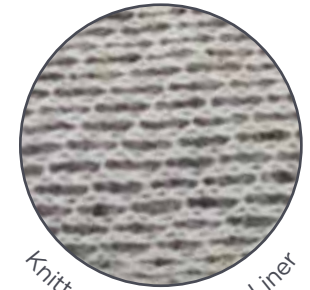
**ALUMINIZED GLOVE**

**DJXGSP382**

- Leather Palm
- 18 oz. Aluminized OPF/DuPont™ Kevlar® Back
- Knitted Wool/Cotton Liner
- Winged thumb
- Aluminized back provides radiant heat & molten metal protection

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

\*Test data only for palm portion



Knitted Wool/Cotton Liner

Adjustable leather strap

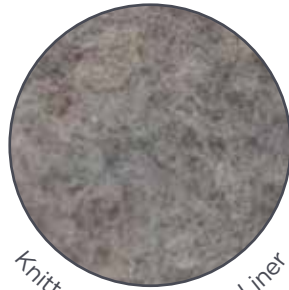
**ALUMINIZED GLOVE W/ ADJUSTABLE STRAP**

**DJXG382S (-J)**

- Leather Palm
- 18 oz. Aluminized OPF/DuPont™ Kevlar® Back
- Knitted Wool/Cotton Liner
- Adjustable leather strap
- Winged thumb
- Aluminized back provides radiant heat & molten metal protection

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

\*Test data only for palm portion



Knitted Wool/Cotton Liner

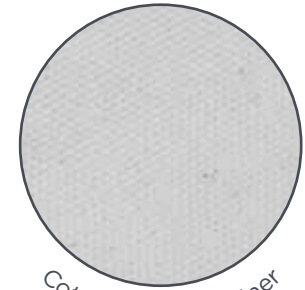
**LEATHER GLOVE W/ RAYON BACK**

**G51MLLW00214**

- Leather Palm
- 16 oz. Aluminized Rayon Back
- 10 oz. Knitted Wool/Cotton Liner
- Straight thumb
- Aluminized back provides radiant heat & molten metal protection

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		✓

\*Test data only for palm portion



Cotton Twill Cuff Liner

Snap adjustment

**LEATHER GLOVE W/ RAYON BACK**

**DJXG705\_\_5XL**

- Thermal Leather Palm
- Aluminized Rayon Back
- Knitted Wool/Cotton Palm Liner, Cotton Twill Cuff Liner
- Palm Patch
- Snap adjustment at cuff
- Extra leather knuckle inner patch
- Straight thumb
- Aluminized back provides radiant heat & molten metal protection

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		✓

\*Test data only for palm portion



**LEATHER GLOVE W/ RAYON BACK**

**DJXGAR1705SPEC2**

- Thermal Leather Palm
- Aluminized Rayon Back & Cuff
- Knitted Wool/Cotton Liner
- Palm Patch
- Hook & loop adjustment at cuff
- Straight thumb
- Aluminized back provides radiant heat & molten metal protection

ANSI/ISEA 105	HEAT	Level 6   18.70 seconds @ 1000°F*
ANSI/ISEA 105	CUT	Level 3   1127 Grams*
LENGTH		16"
SIZE		Large
STOCK		✓

\*Test data only for palm portion

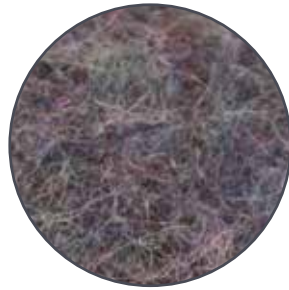


**LEATHER FOUNDRY GLOVE**

**DJXG465**

- Leather Palm and Cuff
- 10 oz. Knitted Wool/Cotton Liner
- Thumb strap
- Straight thumb
- Provides thermal protection

ANSI/ISEA 105	HEAT	Level 2   27.9 seconds @ 285°F
LENGTH		14"
SIZE		Regular
STOCK		✓



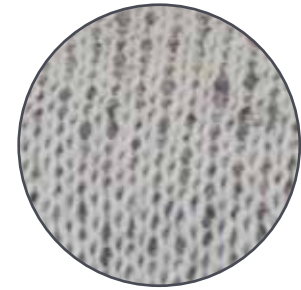
Wool Liner

**THERMOBEST™ MITTEN**

**M11TCVB13**

- 22 oz. Thermobest™
- 12 oz. Wool Liner
- 22 oz. Thermobest™ Cuff
- Provides thermal & cut protection

ANSI/ISEA 105	HEAT	Level 4   22.38 seconds @ 500°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
LENGTH		13"
SIZE		Regular
STOCK		✓



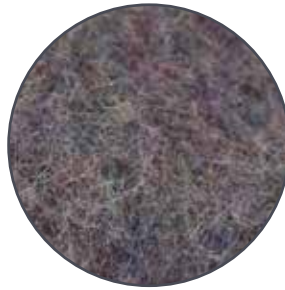
Wool Liner

**THERMOBEST™ MITTEN**

**M11TCRH14**

- 22 oz. Thermobest™
- 15 oz. Wool Liner
- 22 oz. Thermobest™ Cuff
- Provides thermal & cut protection

ANSI/ISEA 105	HEAT	Level 5   25.16 seconds @ 600°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
LENGTH		14"
SIZE		Regular
STOCK		✓



Wool Liner

**THERMOBEST™ MITTEN**

**M11TCVB02213**

- 22 oz. Thermobest™
- 12 oz. Wool Liner
- 22 oz. Thermobest™ Cuff
- Provides thermal & cut protection

ANSI/ISEA 105	HEAT	Level 6   19.32 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
LENGTH		13"
SIZE		Regular
STOCK		✓



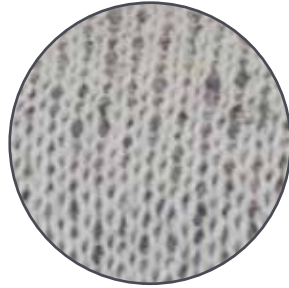
\*Wear the Thermobest™ Mitten Cover (M10TCXX10) over these Thermobest™ Mittens to help prolong their life by protecting them from wear and tear.

**THERMOBEST™ MITTEN COVER**

**M10TCXX10**

- 22 oz. Thermobest™
- Unlined

ANSI/ISEA 105	HEAT	Level 2   14.14 seconds @ 285°F
ANSI/ISEA 105	CUT	Level 4   5366 Grams
ANSI/ISEA 105	PUNCTURE	Level 3   104 Newtons
ANSI/ISEA 105	ABRASION	Level 3   3719 Cycles
LENGTH		10"
SIZE		Jumbo
STOCK		✓



Wool Liner

**ZETEX PLUS® MITTEN**

**M60ZPRH01014**

- 40 oz. Zetex Plus®
- 15 oz. Wool Liner
- 40 oz. Zetex Plus® Cuff
- DuPont™ Kevlar® Palm Patch
- Provides thermal & cut protection

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

\*Wear the Zetex Plus® Mitten Cover (M59ZPXX10) over the Zetex Plus® Mitten (M60ZPRH01014) to help prolong their life by protecting it from wear and tear.



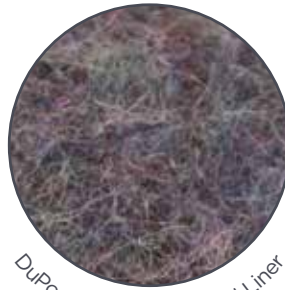
**ZETEX PLUS® MITTEN COVER**

**M59ZPXX10**

- 40 oz. Zetex Plus®
- Unlined
- Provides thermal & cut protection

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





DuPont™ Nomex® & Wool Liner

**FYBERBEST™ MITTEN**

**M60WHGH01213**

- 48 oz. High Temp Fyberbest™
- Dual 8 oz. DuPont™ Nomex® 12 oz. Wool Liner
- 22 oz. Thermobest™ Cuff
- Provides thermal protection

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

\*Wear the Fyberbest™ Mitten Cover (M59WHXX10) over the Fyberbest™ Mitten (M60WHGH01213) to help prolong their life by protecting it from wear and tear.



**FYBERBEST™ MITTEN COVER**

**M59WHXX10**

- 48 oz. High Temp Fyberbest™
- Unlined
- Provides thermal protection

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



Wool Liner



**MITTEN W/ CUFF PATCH**

**M52PCLW00214**

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

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

**THERMOBEST™ HAND PAD**

**P02TC8X8**

- 22 oz. Thermobest™
- Wool felt insulation
- Provides thermal & cut protection

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		✓



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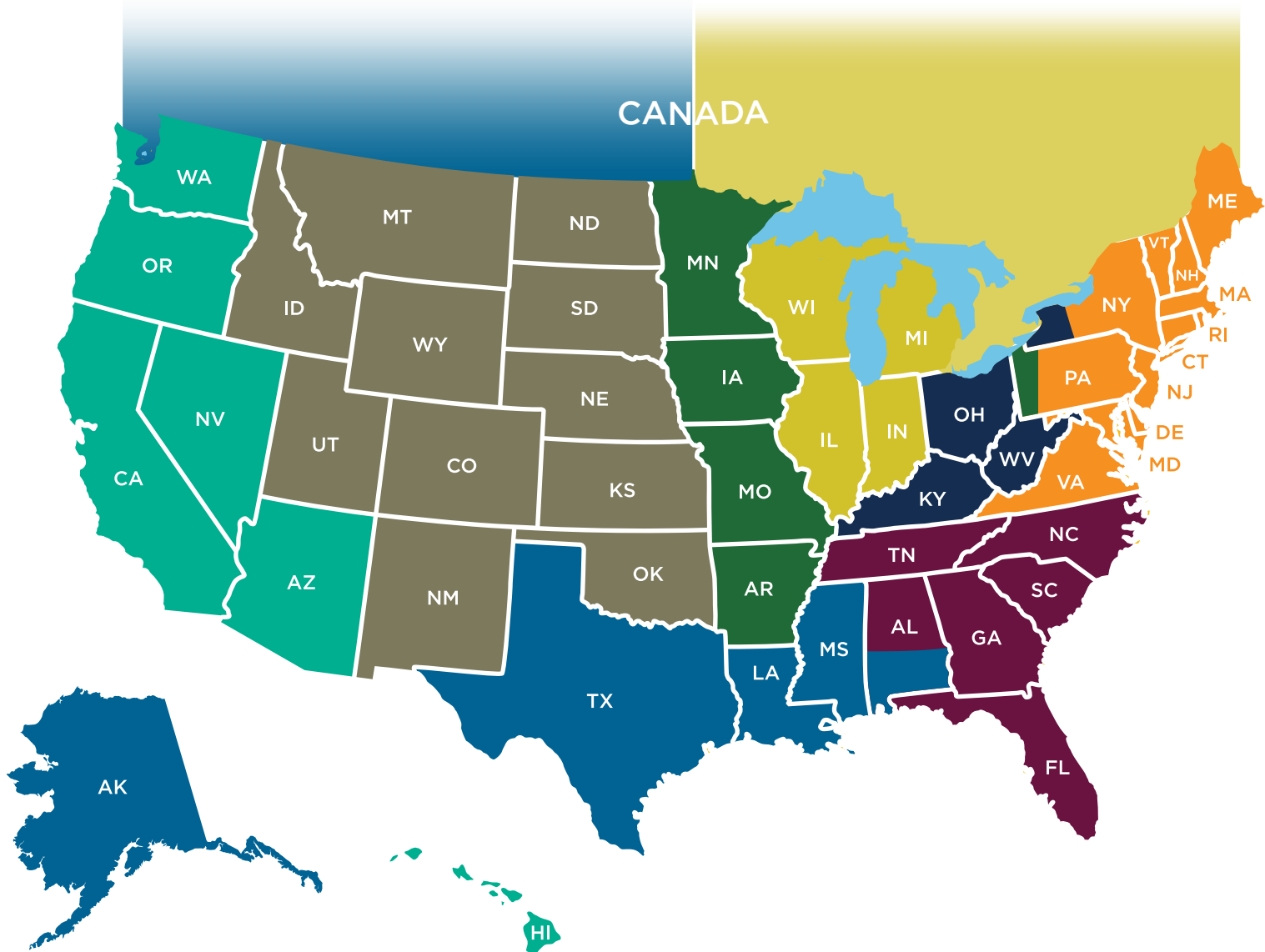
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