



NATIONAL
SAFETY APPAREL®

CRYOGENIC PROTECTION

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

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 9001:2015
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.*







HAND & BODY PROTECTION

Our Cryogen™ gloves have been tested to EN 511, the standard for Protective Gloves Against Cold. Each glove has been rated with a level for convective and contact cold.

We also offer a line of Cryogen™ gloves with a waterproof ePTFE liner which provides additional protection against cryogenic liquid splash. These gloves conform to the reference method MR 019 of the Institut Textile de France (ITF). This reference method requires that the temperature of the inside of the glove exceeds 5°C after being immersed in liquid nitrogen for 1-2 seconds.

What is cryogenic protection, anyways?

The word “cryogenics” comes from the Greek language and means “the production of freezing cold” and similar to the meaning, we produce garments suited for handling and being around cryogenic facilities. This is especially important when considering the temperatures required to handle cryogenic materials (usually well below -290°F/-180°C).

***NOTE:** The test measures the performance of the glove and indicates increased protection against cryogenic liquids. It does not indicate that the gloves can be immersed in cryogenic liquids for normal day-to-day use. No gloves designed to protect against cryogenic liquids should be purposefully immersed.



WATER RESISTANT WRIST LENGTH

G99CRBER_ _WR

- Proprietary ePTFE/Laminated Nylon
- Knit wrist cuffs
- 3M™ Scotchlite™ Thinsulate™ Liner

EN 511 CONVECTIVE COLD PERFORMANCE	Level 3
EN 511 CONTACT COLD PERFORMANCE	Level 2
LENGTH	12"
SIZE	SM - XL
STOCK	✓



WATER RESISTANT MID-ARM LENGTH

G99CRBER_ _MA

- Proprietary ePTFE/Laminated Nylon
- 3M™ Scotchlite™ Thinsulate™ Liner

EN 511 CONVECTIVE COLD PERFORMANCE	Level 3
EN 511 CONTACT COLD PERFORMANCE	Level 2
LENGTH	14"
SIZE	SM - XL
STOCK	✓



WATER RESISTANT ELBOW LENGTH

G99CRBER__EL

- Proprietary ePTFE/Laminated Nylon
- 3M™ Scotchlite™ Thinsulate™ Liner

EN 511 CONVECTIVE COLD PERFORMANCE	Level 3
EN 511 CONTACT COLD PERFORMANCE	Level 2
LENGTH	17"
SIZE	SM - XL
STOCK	✓



WATER RESISTANT SHOULDER LENGTH

G99CRBER__SH

- Proprietary ePTFE/Laminated Nylon
- 3M™ Scotchlite™ Thinsulate™ Liner

EN 511 CONVECTIVE COLD PERFORMANCE	Level 3
EN 511 CONTACT COLD PERFORMANCE	Level 2
LENGTH	26"
SIZE	SM - XL
STOCK	✓

SM
08

MD
09

LG
10

XL
11

-- = SIZE



WATERPROOF MID-ARM LENGTH G99CRBEP__MA

- Proprietary ePTFE/Laminated Nylon
- 3M™ Scotchlite™ Thinsulate™ Liner
- Waterproof & breathable membrane for additional splash protection



WATERPROOF ELBOW LENGTH G99CRBEP__EL

- Proprietary ePTFE/Laminated Nylon
- 3M™ Scotchlite™ Thinsulate™ Liner
- Waterproof & breathable membrane for additional splash protection



WATERPROOF SHOULDER LENGTH G99CRBEP__SH

- Proprietary ePTFE/Laminated Nylon
- 3M™ Scotchlite™ Thinsulate™ Liner
- Waterproof & breathable membrane for additional splash protection

EN 511 CONVECTIVE COLD PERFORMANCE	Level 3
EN 511 CONTACT COLD PERFORMANCE	Level 2
Passed IFTH Reference Method ZLO102 for immersion in Liquid Nitrogen (Institut France de Textile l' Habillement)	
LENGTH	14"
SIZE	SM - XL
STOCK	✓

EN 511 CONVECTIVE COLD PERFORMANCE	Level 3
EN 511 CONTACT COLD PERFORMANCE	Level 2
Passed IFTH Reference Method ZLO102 for immersion in Liquid Nitrogen (Institut France de Textile l' Habillement)	
LENGTH	17"
SIZE	SM - XL
STOCK	✓

EN 511 CONVECTIVE COLD PERFORMANCE	Level 3
EN 511 CONTACT COLD PERFORMANCE	Level 2
Passed IFTH Reference Method ZLO102 for immersion in Liquid Nitrogen (Institut France de Textile l' Habillement)	
LENGTH	26"
SIZE	SM - XL
STOCK	✓

**SAFERGRIP™ MID-ARM LENGTH****G99CRSGP__MA**

- Proprietary ePTFE/Laminated Nylon
- Silicone Coated Para-Aramid SaferGrip™ palm and thumb
- 3M™ Scotchlite™ Thinsulate™ Liner
- 100% Waterproof Liner
- SaferGrip™ silicone coated material in the palm for enhanced grip and durability
- Waterproof & breathable membrane for additional splash protection

EN 511 CONVECTIVE COLD PERFORMANCE	Level 3
EN 511 CONTACT COLD PERFORMANCE	Level 2
Passed IFTH Reference Method ZLO102 for immersion in Liquid Nitrogen (Institut France de Textile l' Habillement)	
LENGTH	14"
SIZE	SM - XL
STOCK	✓

**SAFERGRIP™ ELBOW LENGTH****G99CRSGP__EL**

- Proprietary ePTFE/Laminated Nylon
- Silicone Coated Para-Aramid SaferGrip™ palm and thumb
- 3M™ Scotchlite™ Thinsulate™ Liner
- 100% Waterproof Liner
- SaferGrip™ silicone coated material in the palm for enhanced grip and durability
- Waterproof & breathable membrane for additional splash protection

EN 511 CONVECTIVE COLD PERFORMANCE	Level 3
EN 511 CONTACT COLD PERFORMANCE	Level 2
Passed IFTH Reference Method ZLO102 for immersion in Liquid Nitrogen (Institut France de Textile l' Habillement)	
LENGTH	17"
SIZE	SM - XL
STOCK	✓

**SAFERGRIP™ SHOULDER LENGTH****G99CRSGP__SH**

- Proprietary ePTFE/Laminated Nylon
- Silicone Coated Para-Aramid SaferGrip™ palm and thumb
- 3M™ Scotchlite™ Thinsulate™ Liner
- 100% Waterproof Liner
- SaferGrip™ silicone coated material in the palm for enhanced grip and durability
- Waterproof & breathable membrane for additional splash protection

EN 511 CONVECTIVE COLD PERFORMANCE	Level 3
EN 511 CONTACT COLD PERFORMANCE	Level 2
Passed IFTH Reference Method ZLO102 for immersion in Liquid Nitrogen (Institut France de Textile l' Habillement)	
LENGTH	26"
SIZE	SM - XL
STOCK	✓

SM
08**MD**
09**LG**
10**XL**
11-- = **SIZE**



CRYOGENIC APRON

A02CRC24X36

- Proprietary ePTFE/Laminated Nylon
- 3M™ Scotchlite™ Thinsulate™ Liner
- Water resistant
- Adjustable strap and buckle closure at waist and neck
- 36" Long

EN 511 CONVECTIVE COLD PERFORMANCE	Level 3
EN 511 CONTACT COLD PERFORMANCE	Level 2
LENGTH	36"
SIZE	24" X 36"
STOCK	✓



CRYOGENIC APRON

A02CRC24X42

- Proprietary ePTFE/Laminated Nylon
- 3M™ Scotchlite™ Thinsulate™ Liner
- Water resistant
- Adjustable strap and buckle closure at waist and neck
- 42" Long

EN 511 CONVECTIVE COLD PERFORMANCE	Level 3
EN 511 CONTACT COLD PERFORMANCE	Level 2
LENGTH	42"
SIZE	24" X 42"
STOCK	✓



CRYOGENIC APRON

A02CRC24X48

- Proprietary ePTFE/Laminated Nylon
- 3M™ Scotchlite™ Thinsulate™ Liner
- Water resistant
- Adjustable strap and buckle closure at waist and neck
- 48" Long

EN 511 CONVECTIVE COLD PERFORMANCE	Level 3
EN 511 CONTACT COLD PERFORMANCE	Level 2
LENGTH	48"
SIZE	24" X 48"
STOCK	✓

DID YOU KNOW...

- In addition to protecting and covering your skin, it is extremely important to protect your eyes when handling cryogenic liquids. For this reason, we offer a clear faceshield made from a durable polycarbonate.



CLEAR FACESHIELD

H20XXCLUB

- Clear Polycarbonate Faceshield
- Universal adapter attaches to most hard hats
- Provides protection from incidental cryogenic liquid splash

SIZE	One Size Fits Most
STOCK	✓





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