

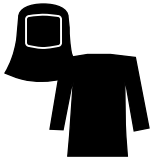
**NSA** NATIONAL  
SAFETY  
APPAREL®



CLOTHING FOR  
ELECTRIC ARC  
APPLICATIONS



**National Safety Apparel, Inc.**



# CLOTHING FOR Electric

National Safety Apparel's (NSA's) electrical clothing is available in a wide range of materials at various levels of protection, in accordance with the regulations laid out in NFPA 70E-2000, ASTM 1506-2001 and OSHA 1910-269.

Our complete line of work wear – **featured on pages 3 through 6** – includes shirts, pants, coats and coveralls that are available in a variety of lined and unlined fire-resistant (FR) cottons and synthetics. With ratings exceeding the minimum of 5 calories/cm<sup>2</sup>, these items are compliant with the NFPA 70E-2000 guidelines for Level I protective clothing (call your NSA sales representative for details).

For higher levels of protection, NSA's Arc Guard™ garments are available in Levels II, III and IV, as defined in NFPA 70E-2000. The Arc Guard™ line includes:

**Arc Guard™ Level II Clothing** (Minimum arc rating of 8 calories/cm<sup>2</sup>): Comes standard in 9-ounce navy blue Indura Ultra Soft™ (ATPV\*=11 calories/cm<sup>2</sup>). Choose the Long Coat/Leggings Combo or the Short Coat/Overalls Combo (pictures on page two).

**Arc Guard™ Level III Clothing** (Minimum arc rating of 25 calories/cm<sup>2</sup>): Comes standard in a caramel-colored, lightweight triple-layer Kevlar®/Nomex® combination (ATPV=37 calories/cm<sup>2</sup>). Choose the Long Coat/Leggings Combo or the Short Coat/Overalls Combo (pictures on page two).

**Arc Guard™ Level IV Clothing** (Minimum arc rating of 40 calories/cm<sup>2</sup>): Comes standard in a caramel-colored, lightweight quadruple-layer Kevlar®/Nomex® combination (ATPV=65 calories/cm<sup>2</sup>). Choose the Long Coat/Leggings Combo or the Short Coat/Overalls Combo (pictures on page two).

## Arc Guard™ Clothing Size Chart

	SM	MD	LG	XL	2X	3X	4X	5X
<b>Chest</b>	34/36	38/40	42/44	46/48	50/52	54/56	58/60	62/64
<b>Arm</b>	32 1/2/33	33 1/2/34	34 1/2/35	35 1/2/36	36	36	36	36

\*ATPV = Arc Thermal Performance Value

*Other materials available upon request.*

# Arc Applications

## Long Coat/Leggings Combo *(Available in Levels II, III and IV)*



### **C04 Long Coat –**

This basic calf-length coat features an FR Velcro front closure. FR Velcro wrist adjustments are standard for Level II coats; Level III and IV coats feature FR knit wrists. Available in sizes SM to 5X. Standard jacket length is 49 inches.



### **L05 Legging –**

These 14-inch-long, wrap-around leggings feature an FR Velcro closure. Available in RG (17<sup>1</sup>/<sub>2</sub>-inches wide) or XL (19<sup>1</sup>/<sub>2</sub>-inches wide).



### **H65 Hood –**

NSA's protective hood fits onto a standard hard hat. It features a shoulder notch for stability and a 15-inch front bib for added protection. All hoods come with the appropriate ANSI Z87-1 approved face shield.

## Short Coat/Overalls Combo *(Available in Levels II, III and IV)*



### **C04 Short Coat –**

Our basic thigh-length coat comes with an FR Velcro front closure. FR Velcro wrist adjustments are standard for Level II coats; Level III and IV coats feature FR knit wrists. Available in sizes SM to 5X. Standard jacket length is 32 inches.



### **C45 Bib Overall –**

This overall features large, quick-disconnect shoulder straps, an FR Velcro fly closure and FR Velcro calf closures for easy boot entry. Storage features include two slash pockets with pass-through slashes for access to pants pockets. Available in sizes SM to 5X. Specify 30- or 32-inch inseam.



### **H65 Hood –**

NSA's protective hood fits onto a standard hard hat. It features a shoulder notch for stability and a 15-inch front bib for added protection. All hoods come with the appropriate ANSI Z87-1 approved face shield.



# FR Shirts, Coveralls

## C54 Knit Shirt –

All of our popular knit shirts are available in a variety of colors in a smooth FR cotton jersey knit or a textured-weave FR cotton pique knit. Durable ribbed collars and cuffs are standard. Available in sizes SM to 5X.

### Recommended Materials:

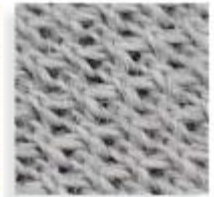
6.25 oz. gray, khaki, light blue or navy FR Valzon® jersey knit (ATPV = 5.8 calories/cm<sup>2</sup>)

or 6.2 oz. gray or light blue FR modacrylic/cotton pique knit (ATPV = 5.8 calories/cm<sup>2</sup>).

JERSEY KNIT



PIQUE KNIT



## Classic T –

Our classic T-shirt, available with long or short sleeves, features one left breast pocket and is one of our top-selling items.



Classic T

## Baseball Shirt –

Providing more of a uniform-type look, our comfortable, long-sleeved, crewneck baseball shirt features one left breast pocket and a button neck closure.



Baseball Shirt

## Polo Shirt –

This distinguishing, collared polo shirt, available with long or short sleeves, also features one left breast pocket and a button-up neck.



Polo Shirt

## FR Shirt, Coverall and Pant Size Chart

	SM	MD	LG	XL	2X	3X	4X	5X
<b>Neck</b>	14/14 1/2	15/15 1/2	16/16 1/2	17/17 1/2	18/18 1/2	19/19 1/2	20/20 1/2	21/21 1/2
<b>Chest</b>	34/36	38/40	42/44	46/48	50/52	54/56	58/60	62/64
<b>Arm</b>	32 1/2/33	33 1/2/34	34 1/2/35	35 1/2/36	36	36	36	36
<b>Waist</b>	28/30	32/34	36/38	40/42	44/46	48/50	52/54	56/58
<b>Short</b>	5'3"-5'7"		Regular 5'8"-6'0"		Long 6'1"-6'3"		X-Long 6'4"-6'7"	

# and Pants



## **C53 Shirt –**

Our deluxe, button-down, woven work shirt is available in a short- and long-sleeved version. Each shirt features two distinctive pointed breast pockets (one with a pencil pocket), a double-layer shirt collar and durable, two-ply cuffs with button closures (long-sleeved version only). Available in sizes SM to 5X. Standard shirt length is 35 inches.

### **Recommended Materials:**

6.0 oz. khaki, navy, orange or royal Nomex IIIA®  
(ATPV = 5.4 calories/cm<sup>2</sup>),  
5.5 oz. khaki or light blue Valzon®  
(ATPV = 5.8 calories/cm<sup>2</sup>)  
or 7.0 oz. khaki, light blue or navy  
Indura Ultra Soft™  
(ATPV = 7.3 calories/cm<sup>2</sup>).



## **T30 Pant –**

These popular deluxe workpants feature a covered-zipper fly closure, a non-metallic waist button closure and seven belt loops for a good fit. Two welted rear inset pockets and two front slash pockets are standard. Available in 30- to 50-inch waist sizes and custom inseams (waist and inseams available in 2-inch increments).

### **Recommended Materials:**

6.0 oz. khaki, navy, orange or royal Nomex IIIA®  
(ATPV= 5.4 calories/cm<sup>2</sup>)  
or 9.0 oz. navy Indura Ultra Soft™  
(ATPV=11.2 calories/cm<sup>2</sup>).



## **C88 Coverall –**

Our standard coverall features a comfortable, sewn-in elastic waist and a two-way covered zipper down the front for easy entry. The garment's generous pockets include two breast pockets with flaps and hidden snap closures, two large rear pockets and two front slash pockets with pass-through slashes for access to pants pockets. Available in sizes SM to 3X and lengths from short to extra long.

### **Recommended Materials:**

6.0 oz. khaki, navy, orange or royal Nomex IIIA®  
(ATPV= 5.4 calories/cm<sup>2</sup>),  
7.0 oz. khaki, light blue or navy Indura Ultra Soft™  
(ATPV=7.3 calories/cm<sup>2</sup>)  
or 9.0 oz. navy Indura Ultra Soft™  
(ATPV=11.2 calories/cm<sup>2</sup>).

**Other materials available upon request.**



# Outerwear

All of our lined, cold-weather outerwear features an FR cotton Modaquilt® lining, offering superior comfort and warmth. **Recommended Materials:** 6 oz. navy Nomex® or 11 oz. carmel brown Indura® Duck.



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## **C88 Lined Coverall –**

This coverall has a comfortable, sewn-in elastic waistband, a two-way covered zipper down the front, a covered leg zipper with gussett and a zip on/off hood. The storage amenities include two breast pockets with flaps and hidden snap closures, two large rear pockets and two front slash pockets with pass-throughs for access to pants pockets. Available in sizes SM to 5X and lengths from short to extra long.

## **C45 Lined Overall –**

This popular overall features large, quick-disconnect shoulder straps, a Velcro fly closure and a covered leg zipper with gussett. Storage features include a generous bib pocket, two large rear pockets and two slash pockets with pass-throughs for access to pants pockets. For greater winter weather protection, pair this item with our lined bomber jacket. Available in sizes SM to 2X. Specify 30- or 32-inch inseam.

## **C34 Lined Bomber Jacket –**

Our stylish, snug-fitting bomber jacket is the perfect cold-weather companion to our lined overall. It features hidden snap closures down the front, Velcro adjustments on the neck, waist and cuffs and seven convenient pockets. The liner zips out of the garment for less frigid winter days. Available in sizes SM to 3X. Standard jacket length is 32 inches.

## **C18 Lined Parka Jacket –**

This oversized, deluxe parka jacket features a front zipper closure and a zip on/off hood with drawstring. Two extra-large lower pockets and comfortable FR knit Nomex® wrists also are standard. Available in sizes SM to 3X. Specify regular (32-inch) or tall (36-inch) jacket length.



# OTHER Work Wear



## C09 Lab Coat –

This basic, box-sleeve coat features hidden snap closures down the front, one inside left breast pocket and two front pockets. Available in sizes SM to 3X. Standard coat length is 42 inches.

### **Recommended Materials:**

6.0 oz. khaki, navy, orange or royal Nomex IIIA®

(ATPV= 5.4 calories/cm<sup>2</sup>)

or 9.0 oz. navy Indura Ultra Soft™

(ATPV=11.2 calories/cm<sup>2</sup>).



## C18 Parka Jacket –

Our oversized, unlined parka-style work jacket has a Velcro front closure for quick and easy dressing. The large hood is designed to fit over a standard hard hat. Two front pockets with flaps are standard. Available in sizes SM to 3X. Standard coat length is 32 inches. This item also is available as the C19 Poncho with an elastic hood and wristbands (see inset photo).

### **Recommended Materials:**

6.0 oz. khaki, navy, orange or royal Nomex IIIA®

(ATPV= 5.4 calories/cm<sup>2</sup>)

or 9.0 oz. navy Indura Ultra Soft™

(ATPV=11.2 calories/cm<sup>2</sup>).



## C20 Sweatshirt –

This classic terry sweatshirt features a covered front zipper and two front slash pockets. Available with hood or stand-up collar in sizes SM to 3X.

### **Recommended Materials:**

9.5 oz. navy or orange French terry Valzon®

## Outerwear and Other Work Wear Size Chart

	SM	MD	LG	XL	2X	3X	4X	5X
<b>Neck</b>	14/14½	15/15½	16/16½	17/17½	18/18½	19/19½	20/20½	21/21½
<b>Chest</b>	34/36	38/40	42/44	46/48	50/52	54/56	58/60	62/64
<b>Arm</b>	32½/33	33½/34	34½/35	35½/36	36	36	36	36
<b>Waist</b>	28/30	32/34	36/38	40/42	44/46	48/50	52/54	56/58
<b>Short 5'3"-5'7"</b>		<b>Regular 5'8"-6'0"</b>			<b>Long 6'1"-6'3"</b>		<b>X-Long 6'4"-6'7"</b>	

Other materials available upon request.

***The following popular materials meet the specifications laid out in the ASTM 1506-2001, OSHA 1910-269, and NFPA 70E-2000 standards.***

**Nomex IIIA®** is an inherently flame-resistant blend of 93 percent Nomex®, 5 percent Kevlar® and 2 percent antistatic fiber. This material is very durable and has a proven performance record in flash-fire and electric-arc applications. Machine washable. Do not use chlorine bleach.

**Kevlar®** offers superior strength, making it an ideal material for electric arc applications. It is inherently flame- and cut-resistant. Machine washable. Do not use chlorine bleach.

**Indura Ultra Soft™** is a blend of 88 percent permanently FR cotton and 12 percent high-tenacity nylon. The nylon adds comfort and durability. Machine washable. Do not use chlorine bleach.

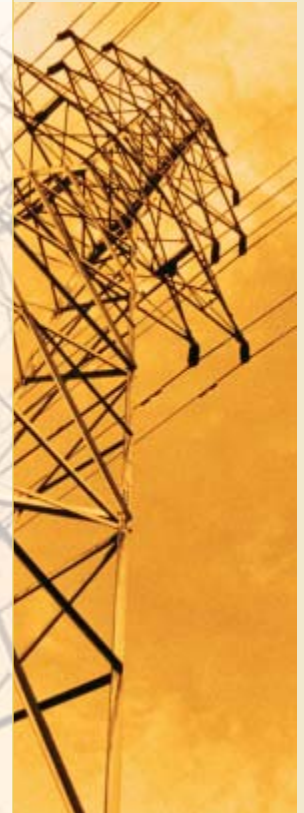
**Valzon®** fabrics are made of 60 percent FR acrylic fiber and 40 percent cotton. Benefits include softness, good color retention and moisture absorption. Valzon® materials also are very easy to care for and are extremely durable. Machine washable. Do not use chlorine bleach.

*Other materials, sizes and options are available upon request. Embroidery is available on all of our products. For swatches or details on laundering, sizing and custom orders, please do not hesitate to contact NSA for assistance.*

*Arc Guard™ test data is available upon request.*

*Nomex® and Kevlar® are registered trademarks of the DuPont Company. Modaquilt®, Indura®, Indura Ultra Soft™ and Valzon® are trademarks of Westex Corp.*

*Available through authorized distributors.*



NSA products are made in the USA

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