



**Encon**<sup>®</sup>  
SAFETY PRODUCTS

ARC FLASH CLOTHING

# ARC FLASH CLOTHING - Spentex® NG2™ by Encon®

## More Protection

In heat and stress tests (NFPA 2112/ASTM 1930), Spentex® NG2™ by Encon® FR outperforms traditional FR fabrics.

## Higher Durability

Setting the new standard in FR wear life, Spentex® FR retains outstanding strength and undergoes minimal color loss. Spentex® FR has achieved the highest rating for resistance to UV degradation and maintains its shape and excellent appearance.

## Science of Comfort

Utilizing the technology used in today's athletic fabrics, Spentex® FR has superb wicking capabilities, combined with unsurpassed breath-ability. The result is the most comfortable FR garments available.

## Breath-ability and Moisture Wicking

Spentex® FR is designed to provide HRC-2 single layer protection, with a weight of only 6oz., it is the most lightweight, highest-performing FR garment on the market. Unsurpassed in comfort, Spentex® FR is universally accepted and applicable across multiple occupational hazards and wearer comfort needs.

## Easy Care and Maintenance

Spentex® FR only requires normal laundry care and maintenance.

Spentex® FR is inherently flame resistant, with FR protection built right into the fiber. The result is an affordable and highly effective garment that offers better protection and greater comfort than any other FR product on the market.

*Custom colors available; subject to increased delivery time & minimum order quantity. Contact Encon® Customer service for full details, 1-800-283-6266.*

### Standards/Compliance Testing

The only FR fabric certified to protect against Flash Fire, Electrical Arc Flash and Molten Metal (ferrous/non-ferrous), Spentex® FR meets or exceeds the following industry standards and compliance testing:

#### General Industry

NFPA 70E-2012  
NFPA 2112-2012  
ASTM F1506-10a  
ASTM F2302

#### Industrial Flash Fire

NFPA 2112  
NFPA 2113

#### Electrical Arc

OSHA 29 CFR 1910.269  
NEC, Rule 410A3  
ASTM F1506  
NFPA 70E



## Knit Crew Shirt

Long sleeves, crew collar and long tail.

<b>FABRIC</b>	Flame resistant, 6oz. Spentex® NGI Interlock Knit
<b>HRC</b>	2
<b>RATING</b>	13cal/cm <sup>2</sup> NFPA 2112 Flash Fire UL Certified
<b>SIZES</b>	SM to 3XL
<b>COLOR</b>	Royal Blue
<b>CUSTOM COLORS</b>	Navy, Tan, Gray, Red & Orange



## Knit Henley Shirt

Long sleeves with ribbed sleeve collars, three button Henley-style placket & collar and long tail.

<b>FABRIC</b>	Flame resistant, 6oz. Spentex® NGI Interlock Knit
<b>HRC</b>	2
<b>RATING</b>	13cal/cm <sup>2</sup> NFPA 2112 Flash Fire UL Certified
<b>SIZES</b>	SM to 3XL
<b>COLOR</b>	Royal Blue
<b>CUSTOM COLORS</b>	Navy, Tan, Gray, Red & Orange



## Twill Work Shirt

Long sleeves, seven button placket with double button-down pockets.

<b>FABRIC</b>	Flame resistant, 6oz. Spentex® NGI 2/1 Twill
<b>HRC</b>	2
<b>RATING</b>	9.3cal/cm <sup>2</sup> NFPA 2112 Flash Fire UL Certified
<b>SIZES</b>	SM to 3XL
<b>COLOR</b>	Royal Blue
<b>CUSTOM COLORS</b>	Navy, Tan, Gray, Red & Orange
<b>REFLECTIVE TAPE</b>	Please contact your sales representative for options.



Reflective tape example.

## Spentex® NGI Work Pant

Quarter top pockets, clean finished with deep durable pocketing. Double top-stitched seat seams for no bust performance. Clean finished double-welt back pockets with side bar tacks for a secured opening. Unhemmed.

<b>FABRIC</b>	Flame resistant, 7.5oz. Spentex® NGI Twill
<b>HRC</b>	2
<b>RATING</b>	12cal/cm <sup>2</sup> NFPA 2112 Flash Fire UL Certified
<b>SIZES</b>	WAIST (even sizes only): 28" – 52" LENGTH: 28" – 36"
<b>COLOR</b>	Navy



## Indura® Denim by NSA

100% American cotton in Indura® Denim with a protective arc rating 18 ATPV calories/cm<sup>2</sup>. Flame resistant, relaxed fit in a five-pocket jean style. Pre-washed for comfort.

<b>FABRIC</b>	Flame resistant, 14oz. pre-washed Westex™ 100% FR Indura® Denim
<b>HRC</b>	2
<b>RATING</b>	18cal/cm <sup>2</sup>
<b>SIZES</b>	WAIST (even sizes only): 28" – 52" LENGTH: 28" – 36"
<b>COLOR</b>	Denim

## Standard Coverall

A one piece outfit with a top-stitched lay-flat collar. Two-way, concealed brass zipper. Two hip pockets with access and two breast pockets, both with concealed snap closures. Safety stitched outseams and felled inseams for extra durability.

<b>FABRIC</b>	Flame resistant, 6oz. Spentex® NGI 2/1 Twill
<b>HRC</b>	2
<b>RATING</b>	9.3cal/cm <sup>2</sup> NFPA 2112 Flash Fire UL Certified
<b>SIZES</b>	REGULAR: S — 5XL LONG: M — 4XL
<b>COLOR</b>	Royal Blue
<b>CUSTOM COLORS</b>	Navy, Tan, Gray, Red & Orange
<b>REFLECTIVE TAPE</b>	Please contact your sales representative for options.



Reflective tape example.



# ARC FLASH CLOTHING - 88/12

Introduced in 1996, the 88/12 fabric was designed with both comfort and safety in mind. 88/12 was created with a unique blend of 88% cotton and 12% high-tenacity nylon to provide a soft feel for greater comfort, enhanced wear life and protective performance. In fact, the fabric is engineered to focus the excellent abrasion resistance of the nylon on the outer surface to prolong garment wear life, while the cotton fibers are focused towards the skin to optimize comfort.

88/12 is guaranteed flame resistant for the life of the garment in either high-temperature industrial or home washing procedures. That makes it ideal for enhanced protection from electric arc and flash fire exposures, as well as multipurpose protection from electric arc flash, flash fire, molten ferrous metal and welding exposures.

Encon® provides Arc Flash protective clothing to meet various Risk Categories with standard product up to 40cal/cm<sup>2</sup>. Higher protection factor garments can be manufactured to order upon request.

- Guaranteed flame resistant for life of garment
- Importance of flame resistant – self extinguishes after ignition source removed
- Encon® provides Arc Flash clothing for various Risk Categories
- 12 cal/cm<sup>2</sup> and 40 cal/cm<sup>2</sup> readily available with access to higher protection upon request
- Available in kits or individual parts
- Standards and Compliance Testing noted

## Standards/Compliance Testing

The only FR fabric certified to protect against Flash Fire, Electrical Arc Flash and Molten Metal (ferrous/non-ferrous), 88/12 meets or exceeds the following industry standards and compliance testing:

### General Industry

NFPA 70E-2012  
NFPA 2112-2012  
ASTM F1506-10a  
ASTM F2302



### Electrical Arc

OSHA 29 CFR 1910.269  
NESC, Rule 410A3  
ASTM F1506  
NFPA 70E

## Faceshield Assembly

Arc Flash Faceshield, Hard Hat  
Adapter, Chin Guard, Balaclava.

<b>FABRIC</b>	Balaclava Fabric is white Nomex® double layer knit
<b>HRC</b>	2
<b>RATING</b>	10cal/cm <sup>2</sup>
<b>SIZES</b>	One Size



## Switchgear Hood

The hood completes the Arc Flash outfit. Like the rest of the outfit, the hood is made with comfort and safety in mind. The hood itself is able to be fitted directly onto a standard hard hat and the hood has a 15 inch front bib to provide added protection. Additional Specs: Viewing area of 20 inches, ANSI Z87.1 approved shield, plastic material, tinted.



<b>FABRIC</b>	88/12	
<b>HRC</b>	2	4
<b>RATING</b>	12cal/cm <sup>2</sup>	40cal/cm <sup>2</sup>
<b>SIZES</b>	SM to 3XL	SM to 3XL
<b>COLOR</b>	Khaki	Navy Blue

## Short Coat 32"

The piece that dictates selection of the Arc Flash outfit style is the coat. The Short Coat is 32 inches long (thigh length). The Short Coat is sealed with FR hook and loop closure.



<b>FABRIC</b>	88/12	
<b>HRC</b>	2	4
<b>RATING</b>	12cal/cm <sup>2</sup>	40cal/cm <sup>2</sup>
<b>SIZES</b>	SM to 3XL	SM to 3XL
<b>COLOR</b>	Khaki	Navy Blue

## Leggings

Leggings are the necessary counterpart to the Long Coat that protects the lower legs. The 14 inch leggings are made to wrap around each leg. They are sealed in the back with FR hook and loop closure.



<b>FABRIC</b>	88/12	
<b>HRC</b>	2	4
<b>RATING</b>	12cal/cm <sup>2</sup>	40cal/cm <sup>2</sup>
<b>SIZES</b>	SM - 3XL	SM - 3XL
<b>COLOR</b>	Khaki	Navy Blue

## Bib Overalls

Complementing the Short Coat is the Bib Overall. The Bib is constructed for ease of use without compromising the integrity or the safety of the material. It has hook and loop closure from the calf to the bottom for easy boot entry. It also has shoulder straps that have a quick disconnect in order to quickly and easily put on and remove the overall.

<b>FABRIC</b>	88/12	
<b>HRC</b>	2	4
<b>RATING</b>	12cal/cm <sup>2</sup>	40cal/cm <sup>2</sup>
<b>SIZES</b>	SM to 3XL	SM to 3XL
<b>COLOR</b>	Khaki	Navy Blue



## Over Pant

Arc Flash ‘pullover pant’, uniquely designed to accommodate a wide range of worker, the tunnelized inner elastic waist allows for a customized fit for a variety of waist sizes, flame retardant hook and loop ankle closure adjusting cinches help to seal off the lower leg, 88/12 9oz. shell - breathable and FR life of garment.

<b>FABRIC</b>	88/12	
<b>HRC</b>	2	4
<b>RATING</b>	12cal/cm <sup>2</sup>	40cal/cm <sup>2</sup>
<b>SIZES</b>	SM to 3XL	SM to 3XL
<b>COLOR</b>	Khaki	Navy Blue





## Long Coat 49"

The piece that dictates selection of the Arc Flash outfit style is the coat. Length for the Long Coat is 49 inches (calf length). The jacket is also sealed with FR hook and loop closure.

FABRIC	88/12	
HRC	2	4
RATING	12cal/cm <sup>2</sup>	40cal/cm <sup>2</sup>
SIZES	SM to 3XL	SM to 3XL
COLOR	Khaki	Navy Blue



## Coveralls

The Encon's coverall is made of 88/12, sewn with NOMEX® thread. It includes a comfortable sewn in elastic waist, a FR hook and loop leg closure from calf to bottom for easy boot entry and a FR knit wristlets.

FABRIC	88/12	
HRC	2	4
RATING	12cal/cm <sup>2</sup>	40cal/cm <sup>2</sup>
SIZES	SM to 3XL	SM to 3XL
COLOR	Khaki	Navy Blue



## Arc Flash Kits

Using the 88/12 line of arc flash products, the kits are a combination of the Switchgear Hood, Veratti® GT™ Safety Glasses with ENFOG® coating, a kit bag, an upper garment (Long Coat or Short Coat) and a lower garment (Bib Overall, Leggings, or Over Pant). Contact your Encon® Arc Flash Representative to get a Arc Flash Kit that is perfect for your needs.

FABRIC	88/12	
HRC	2	4
RATING	12cal/cm <sup>2</sup>	40cal/cm <sup>2</sup>
SIZES	SM to 3XL	SM to 3XL
COLOR	Khaki	Navy Blue



# ARC FLASH CLOTHING

## FR DAILY WORK WEAR - Spentex® NG2® by Encon®

DESCRIPTION	SIZE	PART NUMBER
Twill Standard Coverall Royal Blue 9.3cal/cm <sup>2</sup>	Small	CL009C1501
	Medium	CL009C1502
	Large	CL009C1503
	Extra Large	CL009C1504
	2X	CL009C1505
	3X	CL009C1506
Knit Henley Shirt Royal Blue 13cal/cm <sup>2</sup>	Small	CL009C1601
	Medium	CL009C1602
	Large	CL009C1603
	Extra Large	CL009C1604
	2X	CL009C1605
	3X	CL009C1606
Knit Crew Shirt Royal Blue 13cal/cm <sup>2</sup>	Small	CL009C1701
	Medium	CL009C1702
	Large	CL009C1703
	Extra Large	CL009C1704
	2X	CL009C1705
	3X	CL009C1706
Twill Work Shirt Royal Blue 9.3cal/cm <sup>2</sup>	Small	CL009C1801
	Medium	CL009C1802
	Large	CL009C1803
	Extra Large	CL009C1804
	2X	CL009C1805
	3X	CL009C1806
Spentex® NGI Work Pant Navy 12cal/cm <sup>2</sup> <i>(Note waist size &amp; inseam when ordering)</i>	<p style="text-align: center;"> <span style="margin-right: 20px;">Waist</span> <span style="margin-right: 20px;">Inseam</span> <span>Color</span> </p> <p style="text-align: center;"> <b>CL9</b> <span style="display: inline-block; border: 1px solid black; width: 20px; height: 20px; margin: 0 5px;"></span> <span style="display: inline-block; border: 1px solid black; width: 20px; height: 20px; margin: 0 5px;"></span> <span style="display: inline-block; border: 1px solid black; width: 20px; height: 20px; margin: 0 5px;"></span> <span style="display: inline-block; border: 1px solid black; width: 20px; height: 20px; margin: 0 5px;"></span> <span style="display: inline-block; border: 1px solid black; width: 20px; height: 20px; margin: 0 5px;"></span> <span style="display: inline-block; border: 1px solid black; width: 20px; height: 20px; margin: 0 5px;"></span> </p> <p><i>examples:</i>  <b>CL93232NY, CL93636DM</b></p> <p> <i>Waist Range:</i> 28" – 52" [in increments of 2"]  <i>Inseam Range:</i> 24" – 36" [in increments of 2"]  <i>Color:</i> NY for Spentex® NGI Work Pant Navy                      DM for Indura® Denim Work Pant                 </p> <p><i>Notes:</i></p> <ul style="list-style-type: none"> <li>• Add an additional 10% for Waist sizes 48" – 52", with Inseams of 28", 30", 32"</li> <li>• Add an additional 10% for Waist sizes 28" – 46", with Inseams of 24" &amp; 36"</li> </ul>	
Indura® Denim Work Pant Denim 18cal/cm <sup>2</sup> <i>(Note waist size &amp; inseam when ordering)</i>		

## ARC FLASH CLOTHING - 88/12 INDIVIDUAL

	12 cal/cm <sup>2</sup>		40 cal/cm <sup>2</sup>	
	SIZE	PART NUMBER	SIZE	PART NUMBER
Short Coat (32")	Small	CL012C0101	Small	CL040C0101
	Medium	CL012C0102	Medium	CL040C0102
	Large	CL012C0103	Large	CL040C0103
	Extra Large	CL012C0104	Extra Large	CL040C0104
	2X	CL012C0105	2X	CL040C0105
	3X	CL012C0106	3X	CL040C0106
Long Coat (49")	Small	CL012C0201	Small	CL040C0201
	Medium	CL012C0202	Medium	CL040C0202
	Large	CL012C0203	Large	CL040C0203
	Extra Large	CL012C0204	Extra Large	CL040C0204
	2X	CL012C0205	2X	CL040C0205
	3X	CL012C0206	3X	CL040C0206
Leggings	Small	CL012C0301	Small	CL040C0301
	Medium	CL012C0302	Medium	CL040C0302
	Large	CL012C0303	Large	CL040C0303
	Extra Large	CL012C0304	Extra Large	CL040C0304
	2X	CL012C0305	2X	CL040C0305
	3X	CL012C0306	3X	CL040C0306
Bib Overalls	Small	CL012C0401	Small	CL040C0401
	Medium	CL012C0402	Medium	CL040C0402
	Large	CL012C0403	Large	CL040C0403
	Extra Large	CL012C0404	Extra Large	CL040C0404
	2X	CL012C0405	2X	CL040C0405
	3X	CL012C0406	3X	CL040C0406
Over Pant	Small	CL012C0901	Small	CL040C0901
	Medium	CL012C0902	Medium	CL040C0902
	Large	CL012C0903	Large	CL040C0903
	Extra Large	CL012C0904	Extra Large	CL040C0904
	2X	CL012C0905	2X	CL040C0905
	3X	CL012C0906	3X	CL040C0906
Coveralls	Small	CL012C1001	Small	CL040C1001
	Medium	CL012C1002	Medium	CL040C1002
	Large	CL012C1003	Large	CL040C1003
	Extra Large	CL012C1004	Extra Large	CL040C1004
	2X	CL012C1005	2X	CL040C1005
	3X	CL012C1006	3X	CL040C1006
Switchgear Hood	CLH12C1210		CLH40C1210	
Faceshield Assembly	CLH10C0121M			

## ARC FLASH CLOTHING - 88/12 KITS

	12 cal/cm <sup>2</sup>	SIZE	PART NUMBER
<b>AFK10</b> Switchgear Hood Long Coat (49") Bib Overall Kit Bag Veratti® GT™ antifog glasses	Small		AFK10SM
	Medium		AFK10MD
	Large		AFK10LG
	Extra large		AFK10XL
	2X		AFK102X
	3X		AFK103X
<b>AFK12</b> Switchgear Hood Long Coat (49") Leggings Kit Bag Veratti® GT™ antifog glasses	Small		AFK12SM
	Medium		AFK12MD
	Large		AFK12LG
	Extra large		AFK12XL
	2X		AFK122X
	3X		AFK123X
<b>AFK30</b> Switchgear Hood Short Coat (32") Bib Overall Kit Bag Veratti® GT™ antifog glasses	Small		AFK30SM
	Medium		AFK30MD
	Large		AFK30LG
	Extra large		AFK30XL
	2X		AFK302X
	3X		AFK303X
<b>AFK32</b> Switchgear Hood Short Coat (32") Over Pant Kit Bag Veratti® GT™ antifog glasses	Small		AFK32SM
	Medium		AFK32MD
	Large		AFK32LG
	Extra large		AFK32XL
	2X		AFK322X
	3X		AFK323X
	40 cal/cm <sup>2</sup>	SIZE	PART NUMBER
<b>AFK14</b> Switchgear Hood Long Coat (49") Leggings Kit Bag Veratti® GT™ antifog glasses	Small		AFK14SM
	Medium		AFK14MD
	Large		AFK14LG
	Extra Large		AFK14XL
	2X		AFK142X
	3X		AFK143X
<b>AFK24</b> Switchgear Hood Short Coat (32") Bib Overall Kit Bag Veratti® GT™ antifog glasses	Small		AFK24SM
	Medium		AFK24MD
	Large		AFK24LG
	Extra Large		AFK24XL
	2X		AFK242X
	3X		AFK243X
<b>AFK38</b> Switchgear Hood Long Coat (49") Bib Overall Kit Bag Veratti® GT™ antifog glasses	Small		AFK38SM
	Medium		AFK38MD
	Large		AFK38LG
	Extra Large		AFK38XL
	2X		AFK382X
	3X		AFK383X



### Arc Flash Protective Electrical Gloves

Ask us about our full line of Arc Flash Protective Electrical Gloves.

6825 West Sam Houston Pkwy. North, Houston, TX 77041  
Fax: (713) 466-1703 | Toll Free: 1(800) AT ENCON 1(800) 283-6266  
customerservice@enconsafety.com | www.enconsafety.com  
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