NFPA 70E Requirements

The National Fire Protection Association (NFPA) published the latest edition of the NFPA 70E Standard (Standard for Electrical Safety Requirements for Employee Workplaces) in 2009. The revised version requires employees to wear flame resistant (FR) protective clothing that meets the requirements of ASTM F1506 wherever there is possible exposure to an electric arc flash. It requires employers to perform a flash hazard analysis to determine the flash protection boundary distance. The standard is designed to protect employees working inside these flash protection boundaries by requiring protective clothing for corresponding Hazard/Risk Category that has an arc thermal performance value (ATPV) of at least the value listed in the "Protective Clothing Characteristics" section of the standard (see table above). The vast majority of major companies in the U.S. have some employees who work on or near energized electrical conductors or circuit parts. In addition, the Department of Energy has required that federal and contractor employees comply with NFPA 70E and the 2002 National Electric Code (NEC) references the NFPA 70E standard. Finally, OSHA considers the NFPA 70E standard a "recognized industry practice."

When incident energy exceeds 40 cal/cm2 at the working distance, greater emphasis than normal should be placed on de-energizing before working on or near the exposed electrical conductors or circuit parts.





248.542.9090



ARC^{*}FLASH wear Protection Premium Coveralls

8 - 20 cal/cm2

OEL's ARC Flash Protection Coveralls

8 cal/cm2 to 20 cal/cm2 ATPV ratings Made from arc flash resistant, Indura Ultra Soft® Sewn with Nomex® thread Full cut with set in sleeves FR hook and pile front closure 30" inseam, Expansion back 2-ply Nomex® wristlets Hook and pile cuff opening Meet current ASTM F1506 and NFPA 70E standards. Sizes M, L, XL, 2XL, and 3XL available from stock Other sizes available by special order Colors: Orange, Navy (special order)



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8

INDUSTRIAL ELECTRONICS

Indura® Ultra Soft® Coverall Orange AFW 080-FC-(size) Category 2 8 cal/cm2

Indura® Ultra Soft® Orange Coverall AFW 017-FC-(size) Category 2 12 cal/cm2

Indura® Ultra Soft® Orange Coverall AFW 018-FC-(size) Category 2 20 cal/cm2

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Protection Clothing

OEL ARCWEAR ARC FLASH PROTECTION HOODS ARE SIZED ONE SIZE FITS ALL. 50"

32"

Sizing Chart

PRODUCT: COAT 8 cal/cm2 - 20 cal/cm2

Measurements in inches/cm (minimum allowed)				
SIZE	Α	В	С	
Small	42/107	26/66	32/81	
Medium	46/117	26/66	32/81	
Large	50/127	28/71	32/81	
xlarge	54/137	28/71	32/81	
2xLarge	58/147	28/71	32/81	
3xLarge	62/158	28/71	32/81	
4xLarge	66/168	28/71	32/81	
5xLarge	70/178	28.5/72	32/81	
6xLarge	74/188	29/74	32/81	

PRODUCT: JACKET

Measurements in inches/cm (minimum allowed)				
SIZE	Α	В	С	
Small	48/122	27.5/70	46/117	
Medium	52/132	28/71	46/117	
Large	54/137	28/71	46/117	
xlarge	58/147	28.5/72	48/122	
2xLarge	62/158	29/74	48/122	
3xLarge	66/168	29/74	48/122	
4xLarge	70/178	29.5/75	48/122	
5xLarge	74/188	30/76	48/122	
6xLarge	78/198	30/76	48/122	

PRODUCT: COVERALL

Measurem SIZE	ents in inc A	hes/cm (m B	ninimum a D	llowed)
		-		_
Small	40/102	34/86	36/91	29/24
Medium	44/112	34/86	40/102	30/76
Large	48/122	36/91	44/112	31/79
xlarge	52/132	36/91	48/122	31/79
2xLarge	56/142	37/94	52/132	31/79
3xLarge	60/152	37/94	56/142	31/79
4xLarge	64/163	40/102	60/152	31/79
5xLarge	68/173	40/102	64/163	31/79
6xLarge	72/183	40/102	68/173	31/79

- Α Chest - Measure across front from underarm to underarm
- В Sleeve - Measure from top shoulder seam out to end of cuff
- С Length - Measure from back of neck down to hem

PRODUCT: COAT 25 cal/cm2 - 55 cal/cm2 50"

Measurements in inches/cm (minimum allowed)				
SIZE	Α	В	С	
Small	42/107	26/66	32/81	
Medium	46/117	26/66	32/81	
Large	50/127	28/71	32/81	
xlarge	54/137	28/71	32/81	
2xLarge	58/147	29/74	32/81	
3xLarge	62/158	29/74	32/81	
4xLarge	66/168	29/74	32/81	
5xLarge	70/178	29/74	32/81	
6xLarge	74/188	30/76	32/81	

PRODUCT: BIB OVERALL

Measurements in inches/cm (minimum allowed)				
SIZE	D	E	F	
Small	30/76	28/71	56/142	
Medium	34/86	29/74	56/142	
Large	38/96	30/76	56/142	
xlarge	42/107	30/76	56/142	
2xLarge	46/117	30/76	56/142	
3xLarge	50/127	30/76	56/142	
4xLarge	54/137	30/76	56/142	
5xLarge	58/147	30/76	56/142	
6xLarge	62/158	30/76	56/142	



- D Waist -Measure from waist side seam to side seam (flares open)
- Е Inseam - Measure from mid crotch down to leg hem
- F Length - Measure from top of bib down to pant hem

Protection Clothing Material Weights

Quality Guaranteed

OEL uses INDURA® Ultra Soft® and INDURA® brand flame resistant (FR) protective clothing fabrics which are guaranteed flame resistant for the life of the garment. The advanced INDURA® Ultra Soft® provides excellent protection from electric arc flash (for NFPA 70E, ASTM F1506 and OSHA 1910.269 compliance), flash fire (for NFPA 2112 and CGSB 155.20 compliance), molten ferrous metal splash and welding exposures.

This excellent protection is coupled with the soft breathable comfort of cotton and by engineering 12% high tenacity nylon in the face of the fabric, INDURA® Ultra Soft® is designed to wear at least 75% longer than all cotton, which leads to an excellent value equation. This superior balance of protection, comfort and value offers end-users with an excellent option to FR synthetic fabric such as Nomex IIIA.

MATERIAL WEIGHT FOR ATPV RATINGS

ATPV Rating cal/cm2	Material Weight oz./yd2
8	7 oz./yd2 (237 g/m2)
12	9 oz./yd2 (305 g/m2)
20	13 oz./yd2 (441 g/m2)
31	2 layers - 9 oz./yd2 (305 g/m2) & 7oz./yd2 (237 g/m2)
40	2 layers - 13 oz./yd2 (441 g/m2) & 5.5 oz./yd2 (186 g/m2)
55	2 layers - 13 oz./yd2 (441 g/m2) & 13 oz./yd2



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