



DuPont™ NOMEX®

HOW TO MEET AND EXCEED NFPA 70E STANDARDS
WITH PROTECTION BASED ON NOMEX®

DuPont™ NOMEX® for the protection your workers deserve. Today, the industry standard for flame resistant protection is DuPont™ NOMEX® – the fiber with permanent flame-resistance that cannot be washed out or worn away. And NOMEX® can minimize the risk of injury from electric arc flashes because it won't melt, drip or support combustion in the air.



The miracles of science™

Improve your personal protection program by layering garments of DuPont NOMEX®

Worker protection is a top priority. But what meets your safety needs today may not be right tomorrow. Layering garments made with DuPont™ NOMEX® helps improve your protective apparel program and gives you the flexibility to meet varying hazard needs day to day and hour to hour. And because workers are wearing the right garments for the job, not a single heavier garment, comfort and performance are improved.

A simple formula for finding protection for the job

The following chart shows examples of which garments to wear over a base garment system of NOMEX® to comply with NFPA 70E electric arc Hazard/Risk Categories 1, 2 and 3. To determine your day-to-day and highest Hazard/Risk Category requirements, use NFPA 70E or the DuPont brochure, *Protecting Your Workers Through NFPA 70E Compliance (H-97971)*.

Once you know your PPE requirements, select a base garment you are using or considering to use from the left column of the chart. Then using Hazard/Risk Category 1, 2 or 3 color coding, find your highest risk. The appropriate outer garment(s) for layering with the base garment is found at the top of the chart.

		Fabric weight of the Outer Garment made with DuPont™ NOMEX®									
		Arc rating (cal/cm²)	NOMEX® Limitedwear 3.3 oz/yd²	NOMEX® IIIA 4.5 oz/yd²	NOMEX® IIIA 6.0 oz/yd²	NOMEX® Comfortwear 6.5 oz/yd²	NOMEX® IIIA 7.5 oz/yd²	NOMEX® IIIA T** 7.5 oz/yd²	NOMEX® AP 8 oz/yd²	NOMEX® IIIA 9.5 oz/yd²	NOMEX® AP 9.5 oz/yd²
Fabric weight of the Base Garment made with DuPont™ NOMEX®	NOMEX® Limitedwear 3.3 oz/yd²	5.1*									
	NOMEX® IIIA 4.5 oz/yd²	4.5	13.8	14.4	16.2			22.4		29.2	
	NOMEX® Comfortwear 4.5 oz/yd²	4.4			14.0	17.1					
	NOMEX® Comfortwear 5.5 oz/yd²	5.3			19.7						
	NOMEX® IIIA 6.0 oz/yd²	5.6			21.2			23.6			
	NOMEX® Comfortwear 6.5 oz/yd²	5.9									
	NOMEX® IIIA 7.5 oz/yd²						34.8		23.2		
	NOMEX® IIIA T** 7.5 oz/yd²	7.0						28.8			
	NOMEX® AP 8.0 oz/yd²	8.9									
	NOMEX® IIIA 9.5 oz/yd²	8.7							23.9		
NOMEX® AP 9.5 oz/yd²	12.9										
Other non-flame resistant Base Garments			6.2*	8.7*	13.7*	13.5*	15.6*		13.2*	20.4*	
Cotton Knit 4.5 oz/yd²				9.5*	15.5*						
Cotton Denim 13.0 oz/yd²											

*All items are ATPV unless noted with an asterisk. These values are E_{BT}
 **T=Twill
 ***All items are plainweave unless noted

- It's important to note that NFPA 70E Hazard/Risk Categories cover a range of arc ratings. For a more precise determination of your needs, you should run a thorough hazard analysis.
- In addition to garments, other personal protective equipment must be used for NFPA 70E compliance.
- These are typical arc ratings provided as guidance to aid in selection.
- ASTM F-1959-99 test method was used to obtain arc range on one or more test sample sets.
- Please refer to garment manufacturer's label for the exact arc rating of a single-layer garment.

For more information on layering please call a DuPont representative at 1 800 931-3456.



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