

DuPont™ Nomex®

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

PROTECTIVE APPAREL



Protect your workers with garments layered with DuPont™ Nomex® fabric.

Improve your personal protection program by layering garments of DuPont™ Nomex® and Protera® fabric

Worker protection is a top priority. But what meets your safety needs today may not be right tomorrow. Layering garments made with Nomex® helps improve your protective apparel program and helps give you the flexibility to meet varying hazard needs day to day and hour to hour. And because workers are wearing ideal 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 typical garments to wear over a base

garment system made of Nomex® or Protera® fabric 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* (K-23292).

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 Base Garment	Fabric weight of the Outer Garment (Based Upon NFPA 70E)							
	Arc rating (cal/cm ²)	Nomex® IIIA 4.5 oz/yd ²	Nomex® IIIA 6.0 oz/yd ²	Protera® 6.5 oz/yd ²	Nomex® IIIA 7.5 oz/yd ²	Nomex® IIIA Twill 7.5 oz/yd ²	Protera® 8.0 oz/yd ²	
Nomex® IIIA 4.5 oz/yd ²	4.9	14.4	18.8	30.1				
Nomex® IIIA 6.0 oz/yd ²	6.4		27.1	31.4				
Protera® 6.5 oz/yd ²	8.5	16.7	21.2	33.1			35.9	
Nomex® IIIA 7.5 oz/yd ²					34.8			
Nomex® IIIA Twill 7.5 oz/yd ²	7.0					28.8		
Protera® 8.0 oz/yd ²	12.3	17.2	21.2				39.9	

Category 1

Category 2

Category 3

- Note all items are ATPV.
- 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 you in your selection.
- ASTM F-1959 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 or multiple-layer garment.

Customer Service:

Canada 1-800-387-9326
Mexico (52) 55 57 22 1222
United States 1-800-931-3456

www.nomex.com



Nomex®

The information set forth herein is furnished free of charge and based on technical data that DuPont believes to be reliable. It is intended for use by persons having technical skill and at their own discretion and risk. Because conditions of use are outside our control, DuPont makes no warranties, express or implied, and assumes no liability in connection with any use of this information. Nothing herein is to be taken as license to operate under or a recommendation to infringe any patents or trademarks.

Copyright © 2012 DuPont. The DuPont Oval Logo, DuPont™, The miracles of science™, Nomex® and Protera® are registered trademarks or trademarks of E.I. du Pont de Nemours and Company or its affiliates. All rights reserved.

K-14136-1 (05/12) Printed in the U.S.A.