

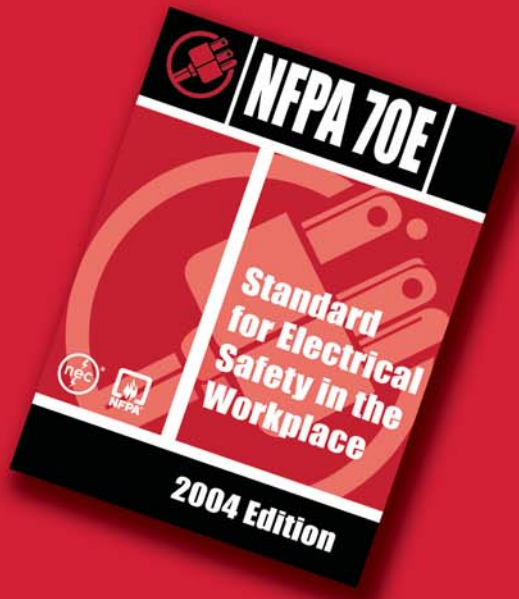


DuPont™  
**NOMEX®**

# **NOMEX® AP: ENGINEERED FOR SUPERIOR ARC PROTECTION**

**PERFORM WHEN THE HEAT'S ON**

# INTRODUCING NOMEX® AP: THE NEW STANDARD FOR NFPA 70E CATEGORY 2 PROTECTION



NFPA 70E is a comprehensive standard from the National Fire Protection Association that contains detailed recommendations on how to protect electricians from the hazards of electric arc exposures.

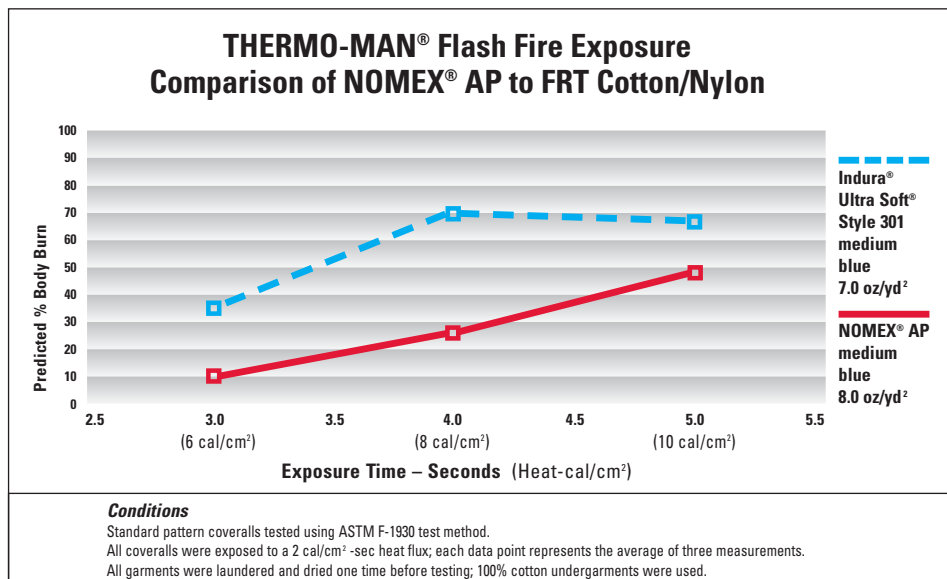
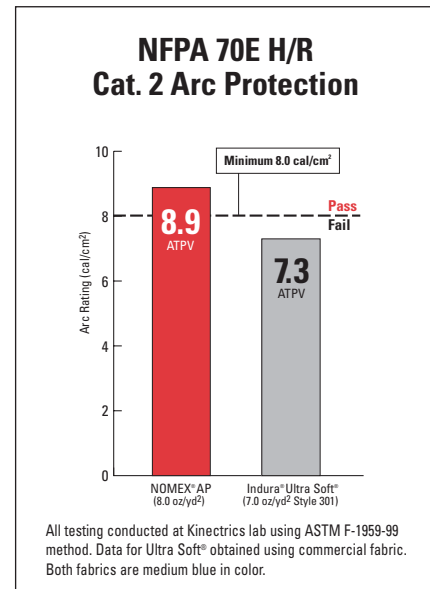
NOMEX® AP is the result of DuPont's extensive electric arc testing, our 40 years experience in flame-resistant (FR) fiber technology, and our knowledge of industrial workers' FR protection needs. This new offering in the NOMEX® Workwear collection consists of fabric and garments manufactured by the Preferred Partners of NOMEX®. NOMEX® AP helps provide electricians the FR protection they need from the intense heat of electric arcs in a durable, single layer garment. Because of the permanent FR protection it provides against electric arc threats, garments made of NOMEX® AP help keep electricians safe from burn injuries by meeting the apparel requirements for NFPA 70E Hazard/Risk Category 2 job tasks. At a 600V motor control center, for example, these tasks may include:

- Work on energized parts, including voltage testing
- Work on control circuits with energized parts >120V exposed
- Removal of bolted covers to expose bare, energized parts

## Engineered to take the heat

Minimizing burn injuries is critical to workers' survival. This is why NOMEX® AP has been specifically engineered to help protect against electric arc and flash fire hazards.

- NOMEX® AP is based on the inherent FR protection of NOMEX® IIIA combined with the soft hand of FR rayon fibers in a flexible twill construction.
- NOMEX® AP meets the arc rating required for Hazard/Risk Category 2 of 8 cal/cm<sup>2</sup>, as defined by the 2004 edition of NFPA 70E. Based on independently conducted tests at the Kinectrics High Current Laboratory, DuPont has not been able to confirm that 7.0 oz./yd<sup>2</sup> Ultra Soft® fabrics satisfy these requirements, as shown in the graph below.



# THE LATEST TECHNOLOGY PROTECTION

- NOMEX® AP is not only designed to help meet the needs of electrical workers in industries covered by NFPA 70E, but it is also suitable for use by electric utilities where 8 cal/cm<sup>2</sup> arc rating protection is needed.
- Since there are circumstances where workers requiring protection from electric arcs may also be exposed to flash fire hazards, NOMEX® AP also offers superior flash fire protection. The chart at the bottom left shows that in thermal manikin testing of coveralls made with NOMEX® AP, predicted body burn levels were consistently lower than 7.0 oz./yd<sup>2</sup> Ultra Soft®.

## Durable protection and comfort

Since the resistance to flame is built into the fiber, NOMEX® AP provides permanent protection that cannot be washed or worn away. Vertical flammability testing (ASTM D-6413) indicates that the flame resistance properties of topically treated FR cotton fabrics, like Ultra Soft®, may be degraded when these products are exposed to chlorine bleach.

Unlike FR cotton apparel in the marketplace today, garments of NOMEX® AP maintain their

professional appearance even after 150 industrial washings and can be easily cleaned at home or by industrial launderers.

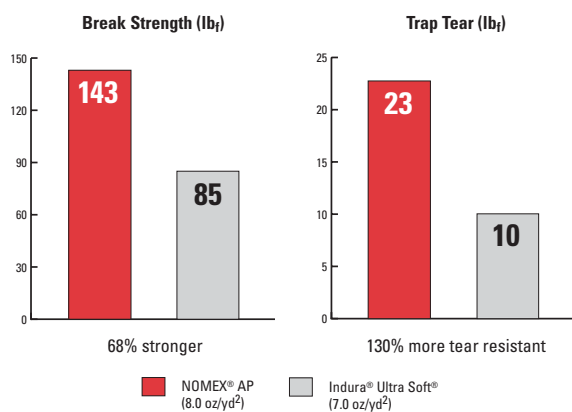
- In addition to superior arc and flash fire protection, NOMEX® AP is more durable than 7.0 oz./yd<sup>2</sup> Ultra Soft® (see charts below), which translates into longer wear life and lower repair and replacement costs.
- Garments of NOMEX® AP are also very comfortable to wear. Because they are soft and supple, they are suitable for all day wear, which enables workers to concentrate on the job at hand.

## Permanent protection from a brand you can trust

With NOMEX® AP, electricians and safety professionals can get the arc, flash fire, comfort, and durability benefits they need from a trusted brand: DuPont™ NOMEX®. Synonymous with superior thermal protection and worn by workers in the chemical, petrochemical and utility industries, as well as firefighters and racecar drivers, NOMEX® has been delivering exceptional FR performance for almost 40 years.



## Higher Strength = Longer Garment Wear Life



Break strength (ASTM D-5034) and trap tear results (NFPA 1971) are an average of the values from the warp and fill direction.

NOMEX® AP fabrics/garments meet the requirements of:

- NFPA 70E
- ASTM F-1506
- CGSB 155.20
- NFPA 2112
- OSHA 29 CFR 1910.269

# DuPont™ **NOMEX®**

NOMEX® AP, part of the NOMEX® Workwear collection, is manufactured by the Preferred Partners of DuPont™ NOMEX® listed below and is available in 8 oz/yd<sup>2</sup> medium blue and navy blue shirts, pants and coveralls and in 9.5 oz/yd<sup>2</sup> denim jeans (12.9 cal/cm<sup>2</sup> ATPV) for outstanding NFPA 70E H/R Category 2 electric arc protection.



In addition to NOMEX® AP, DuPont™ NOMEX® is available in a wide variety of single- and multi-layer clothing options that meet each of the NFPA 70E Hazard/Risk Categories. For more information, see our piece titled "Protecting Your Workers Through NFPA 70E Compliance," available by calling 1-800-931-3456 and requesting Item H-97962.

## Preferred Partners

Fabrics manufactured by  
and available from:



1-800-668-4724

Garments manufactured by  
and available from:



1-800-521-1888

## USA

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DuPont Personal Protection  
P.O. Box 27001  
Richmond, VA 23261  
Tel: (800) 931-3456

## CANADA

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Tel: (800) 387-2122  
(905) 821-5193

[www.personalprotection.dupont.com](http://www.personalprotection.dupont.com)

**Product safety information is available upon request.** This information corresponds to our current knowledge on the subject. It is offered solely to provide possible suggestions for your own experimentations. It is not intended, however, to substitute for any testing you may need to conduct to determine for yourself the suitability of our products for your particular purposes. This information may be subject to revision as new knowledge and experience becomes available. Since we cannot anticipate all variations in actual end-use conditions, DUPONT MAKES NO WARRANTIES AND ASSUMES NO LIABILITY WHATSOEVER IN CONNECTION WITH ANY USE OF THIS INFORMATION. Nothing in this publication is to be considered as a license to operate under or a recommendation to infringe any patent right. It is the user's responsibility to determine the level of risk and the proper protective equipment needed for the user's particular purposes. DuPont does not manufacture NOMEX® AP fabrics or garments.

