

# DuPont™ Nomex®

THE SUPERIOR CHOICE  
IN FLAME-RESISTANT PROTECTION

## PROTECTIVE APPAREL



### The Need for Flame-Resistant Garments

Every year, hundreds of industrial workers are killed or seriously injured by industrial fires or electric arcs. Many of these injuries could have been minimized or avoided if workers had been wearing flame-resistant garments.

Fires are unpredictable. They can last for 3, 4, and 5 seconds or longer. A matter of seconds can mean the difference between minor burns and life-threatening injuries. A flame-resistant garment helps protect the wearer from the heat and flames of industrial fires and electric arcs; it also provides valuable seconds for escape.

### DuPont — Leader in Flame-Resistant Protection

For more than 40 years, protective apparel made from DuPont™ Nomex® brand fiber has helped provide superior thermal protection from flames, industrial

fires and electric arcs. The unique molecular structure of Nomex® makes it inherently flame resistant. Manufacturers use Nomex® in their garments to help protect workers in the electric utility, industrial electric and petrochemical industries. Professional firefighters, race car drivers, U.S. military personnel and NASA astronauts also wear garments of Nomex® fiber.

### Excellent Thermal Performance

Nomex® fiber helps garment manufacturers provide outstanding thermal performance because Nomex®:

- Is inherently flame resistant.
- Does not burn or melt and drip.
- Provides permanent protection that won't wash out or wear away.
- Helps minimize break-open and maintains a stable, inert barrier between the fire/arc and skin, helping to protect the wearer from direct exposure.
- Forms a tough, protective char when exposed to flame.
- Meets the ASTM F-1506 standard for workers' apparel as protection from electric arc exposure.
- Certified to NFPA 2112.

### Durability and Cost Effectiveness

Garments made of Nomex® provide an outstanding wear life and can contribute to bottom-line savings by being:

- Extremely durable and resist abrasion, tears and chemicals.
- Longer lasting than other protective fabrics, including FRT cotton, providing excellent value.

### Comfortable

Garments made of Nomex® help garments to be :

- Lightweight, highly breathable and designed to help wearers feel cool and dry.
- Available in a variety of fabric weights to suit any climate.
- More comfortable to wear by reducing static cling.

### Professional Appearance and Easy Care

Garments made of Nomex® can enhance the professional appearance by being:

- Available in a wide range of colors and garment styles.
- Excellent in appearance retention.
- Easy to launder, low laundry shrinkage and rarely need pressing.
- Providing permanent protection that cannot be washed out or worn away.

### Work Clothing Performance Characteristics

Fiber Property	Nomex® IIIA	FRT Cotton
Permanent Flame Resistance*	★★★★	
Abrasion/Tear Resistance	★★★★	★★
Expected Wear Life	★★★★	★★
Permanent Press Appearance	★★★	★
Lightweight Comfort	★★★★	★
Breathability	★★★★	★

\* Cannot be compromised by laundry process.  
Note: Nomex® 4.5 oz/sy; UltraSoft® 7.0 oz/sy  
Typical comparison of 4.5 oz/sy Nomex® IIIA vs. UltraSoft®

### Customer Service:

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[www.nomex.com](http://www.nomex.com)

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