

# DuPont™ Nomex® CXP® combines improved comfort with dual-hazard protection



Nomex® CXP® fabric by Milliken was specifically developed to provide improved comfort with dual-hazard fire and electric arc protection. This uniquely made fabric also offers the proven durability, lifecycle value and inherent flame resistance that you have come to expect from Nomex®.

Nomex® CXP® is a patented, inherently flame-resistant fabric innovation that helps protect against both fire and electric arc flash hazards. This dual-hazard solution combines proprietary technology engineered by Milliken to enhance arc protection for DuPont Nomex®—which is recognized as a leading flame-resistant (FR) fabric for fire protection in oil and gas, military, emergency response and automobile racing applications.

### Unmatched protection

Nomex® CXP® offers enhanced protection to workers in the industrial and electric utility distribution markets. It features the proven fire protection of Nomex® and delivers a lightweight HRC 2 dual-hazard solution, which helps protect against both fire and arc flash threats.

### Enhanced comfort

In addition to providing dual-hazard protection, Nomex® CXP® provides enhanced comfort. Unlike many of the FR products in the market—which are bulky, heavy and stiff—Nomex® CXP® is lightweight, soft and breathable. Nomex® CXP® also has better moisture management than most other FR fabrics. This continues to demonstrate that Nomex® CXP® is a product that will enhance worker comfort in hot, humid environments when compared to other technologies.


DuPont™  
**Nomex® CXP®**  
Milliken®  
*HRC 2 Inherent FR Fabric*

## Property Specifications

Style 706002 (979005) • 5.8 oz. 2x1 LH Twill • 100% DuPont™ Nomex® IIIA

5.75 oz. Twill	Process Averages*	Specs*	Test Method
Weight	5.8 oz/yd <sup>2</sup>	5.8 oz/yd <sup>2</sup> (+/- 5%)	ASTM D3776
Width-Min.	65.0"	>64.0" Cuttable	—
Tear Strength (lbs W x F)	7.6 x 9.6	>5.5 x >5.5	ASTM D1424
Tensile Strength (lbs W x F)	244 x 151	>150 x >100	ASTM D5034
Appearance	3.0 min. (10 IL)	3.0 min. (10 IL)	AATCC 124-1996
Laundry Shrinkage (W x F)	2.5% x 2.0%	<3.0% x <3.0%	ASTM 1506 AATCC 135-3, IV, Aiii
10 IL** Shrinkage (W x F)	1.8% x 1.7%	<5.0% x <5.0%	**Wash Method as specified by NFPA 2112
HTP (contact/spaced)	7.5 / 13.1	>3/6	NFPA 2112-2007
Vertical Flame (W x F)	2.3 x 2.0	<4.0" x <4.0"	ASTM D6413
Thermal Shrinkage	1.7% x 1.9%	<10% x <10%	NFPA 2112-2007
Arc Rating (ATPV)	10.2 cal/cm <sup>2</sup>	>8.0	ASTM F1959
Thermal Manikin	18%	<50%	ASTM F1930

US Patent #7,168,140 and other patents pending.

UL Certified to NFPA 2112, CAN/CGSB-155.20 (155.22), NFPA 1975, NFPA 1977. 

Arc Rated according to ASTM F1506 for NFPA 70E as HRC 2.

\*Note: "Process Averages" are historical averages; actual results may vary by lot (but will meet the minimum "Specs").

Inherent flame resistance; the FR cannot be washed or worn out.

Please Note: CXP® fabrics are innovative, high-tech, flame-resistant materials intended to be used in garments that supplement personal protective equipment that reduce the flammability risks of momentary exposure to electric arc flash and flash fire hazards. They may be used as a layer of, but are not intended for use as the primary protection in fire fighting garments or other products subject to repeated or extended exposure to heat or flame except for CXP® fabrics that are explicitly certified in writing to meet NFPA 1977 for use in wildland fire fighting garments. Use caution near sources of flame or intense heat and do not launder with bleach or fabric softeners. As each customer's use of our product may be different, information we provide, including without limitation, recommendations, test results, samples, care/labeling/processing instructions or marketing advice, is provided in good faith but without warranty and without accepting any responsibility/liability. Each customer must test and be responsible for its own specific use, further processing, labeling, marketing, etc. All sales are exclusively subject to our standard terms of sale posted at [www.milliken.com/terms](http://www.milliken.com/terms) (all additional/different terms are rejected) unless explicitly agreed otherwise in a signed writing.

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