



DuPont™ Nomex® Nano Flex

Game-Changing Barrier Protection

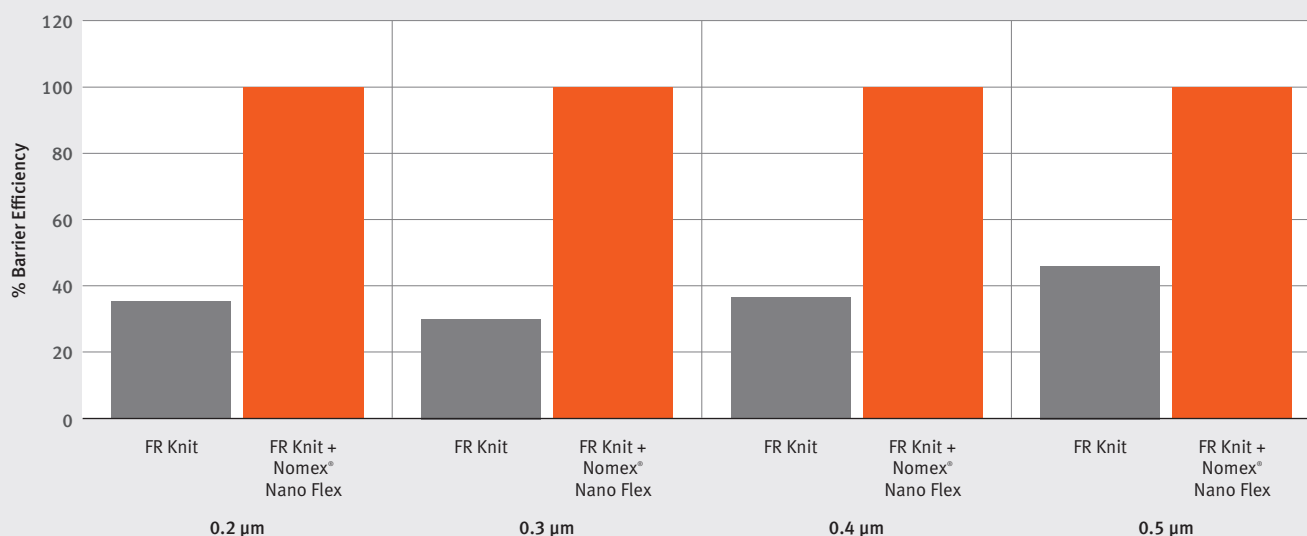
What if a new technology could provide superior particle barrier protection while offering breathability, and was such a lightweight, flexible solution that you hardly knew it was there? Introducing NEW DuPont™ Nomex® Nano Flex—the latest breakthrough in barrier protection for firefighter hoods.

Based on the Nomex® brand that has been trusted by firefighters around the world for more than 50 years, Nomex® Nano Flex was developed to help make products like firefighter hoods more protective against particles without compromising comfort.

Nomex® Nano Flex is a highly breathable, flame-resistant (FR) material with exceptional elasticity and superior particle barrier performance. It is thinner and lighter weight than other FR materials.

The addition of Nomex® Nano Flex to a firefighter hood composite structure provides improved particle barrier protection in the neckline and upper jaw area that historically are known to be the most vulnerable and least protected. In fact, it results in up to a 4X increase in particle barrier efficiency.

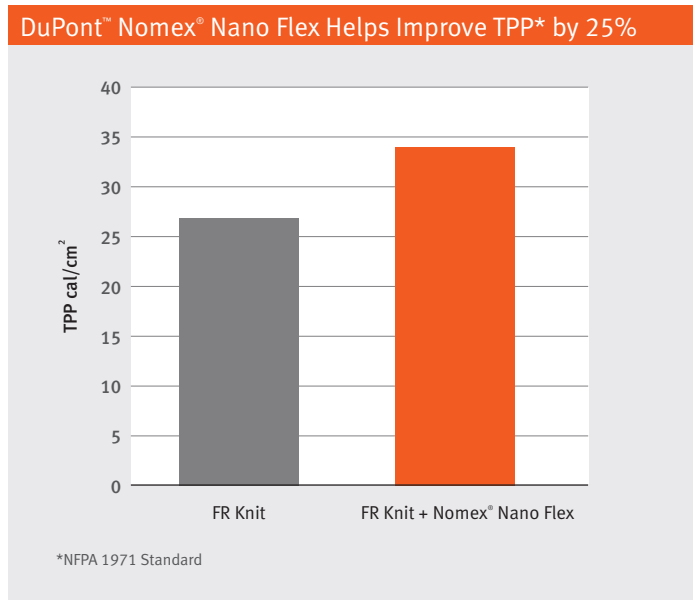
DuPont™ Nomex® Nano Flex Helps Improve Barrier Efficiency* up to 4X



*ASTM F2299-2010 Test Method



What's more, the combination of Nomex® Nano Flex and an FR knit material in a firefighter hood results in a 25% improvement in thermal protection performance (TPP) compared to an FR knit material alone.



The bottom line? Game-changing barrier protection is here—Nomex® Nano Flex.

Typical Properties of DuPont™ Nomex® Nano Flex	
Property*	Nomex® Nano Flex
Basis Weight, oz/yd ² g/m ²	0.8 26
Thickness, mil micron	9.1 230
Barrier Efficiency (%)	>95% (<1.0 µm particle size)**
Total Heat Loss (THL) W/M ²	350**
Thermal Protection Performance (TPP) cal/cm ²	34**
Limiting Oxygen Index (LOI)	40
Laundry Durability (number of washes)	>25

*Properties are nominal targets.

**For hood composites made of 7 oz/yd² 100% Nomex®, Nomex® Nano Flex, 7 oz/yd² 100% Nomex®.

Visit Nomex.com to learn more.

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