

# Nomex® Nano Flex

Game-changing barrier protection

Offering breathability and flexibility, DuPont™ Nomex® Nano Flex also provides superior particle barrier protection to the upper jaw and neckline—two of the most vulnerable areas. Nomex® Nano Flex has no fluorinated chemicals intentionally added and is OEKO-TEX® certified.



Thin and lightweight



No fluorinated chemicals intentionally added



Reduces heat stress

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.

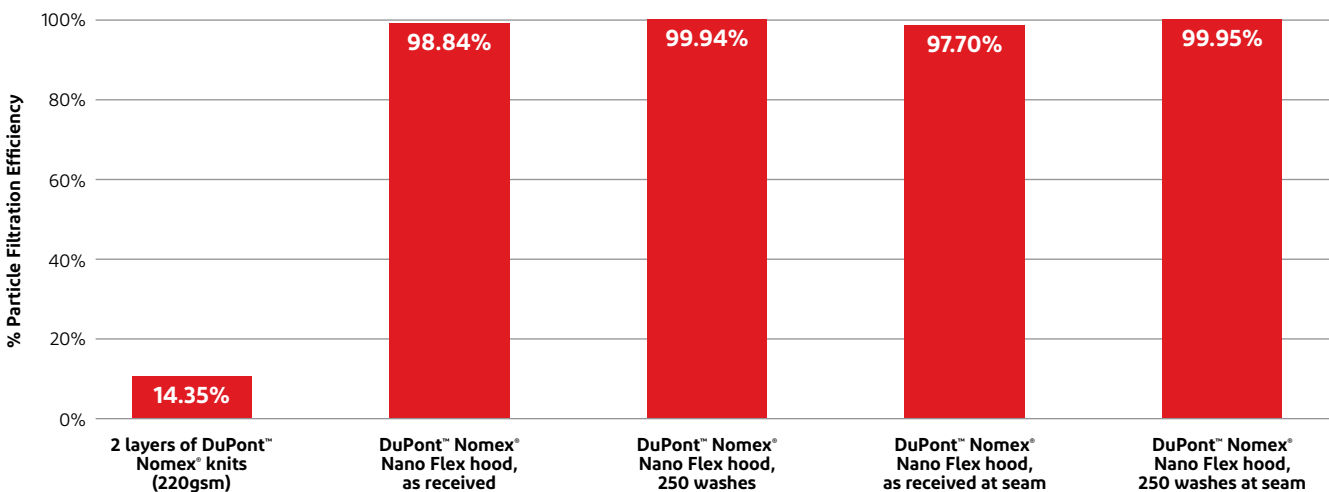
What's more, the combination of Nomex® Nano Flex and an FR knit material in a firefighter hood results in a 25% improvement in thermal protection performance (TPP) compared to an FR knit material alone.

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

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

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.

## Proven performance up to 250 washes\*



\* @ 2.3lpm @ 0.3µM, ASTM F2299/F2299M

## Nomex® Nano Flex provides outstanding breathability

Property	THL (W/m <sup>2</sup> ) (ASTM F1868)	RET (kPa·m <sup>2</sup> /W) (ISO 11902)
DuPont™ Nomex® Nano Flex LAM 430	479	7
Standards	325 (NFPA 1971–2018)	—

## Typical properties of Nomex® Nano Flex hoods

Property	DuPont™ Nomex® Nano Flex hood LAM 430	NFPA 1971–2018
TPP (sec at 2 cal/cm <sup>2</sup> ) (ASTM F2700)	23	>=20
THL (W/m <sup>2</sup> ) (ASTM F1868)	479	>=325
RET (kPa·m <sup>2</sup> /w) (ISO 11902)	7	Not in the standard
Filtration efficiency (% , before and after 20X laundries) (SATM F2299)	99/99	>=90
Thermal shrinkage (%) (ASTM F2894)	2	<=10
Laundry shrinkage (%) (AATCC 135)	<=5	<=5
Air permeability (CFM, @ 0.5"H <sub>2</sub> O) (ASTM D737)	10	Not in the standard
Char length (mm) (ASTM D6413)	10	<=100
After flame (s) (ASTM D6413)	0	<=2
Burst strength (lbs) (ASTM 6797)	173	>51



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

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