

**DUPONT™
NOMEX®**

Lightweight Comfort in FRT Fabric



Nomex
NEVER QUIT.™



FRT Cotton/Nylon

Size 44R ASTM F1930
Garment Weight 1.75 lb (796 g)
Specified Fabric Weight 7.0 oz/yd'
(Actual Fabric Weight 8.1 oz/yd')

Nomex® IIIA

Size 44R ASTM F1930
Garment Weight 1.0 lb (457 g)
Specified Fabric Weight 4.5 oz/yd'
(Actual Fabric Weight 4.7 oz/yd')

DuPont™ Nomex® brand fiber helps manufacturers of garments offer the lightweight, comfortable protection your workers are looking for. Nomex® helps provide outstanding flame resistance, but that's not all. Fabrics made of Nomex® are also very strong and extremely durable, especially when compared to other materials such as flame-retardant-treated (FRT) cotton fabrics. As a result, garments can be made from lighter-weight fabric of Nomex® for increased comfort and breathability.

For example, coveralls of Nomex® generally made from fabrics with manufacturers' specified weights as low as 4.5 oz/yd' still meet applicable industrial standards. The lightest-weight FRT cotton/nylon fabric has to weigh 7 oz. to meet NFPA 2112. The garment made of FRT cotton/nylon fabric is almost one pound heavier than the garment made of Nomex®.

Cotton is typically thought of as a comfortable fabric. However, heavier, chemically treated FRT cotton garments are not the same as your everyday cotton clothing. Chemical additives, which account for as much as 20% of the weight of the fabric, make the garment heavier than garments made of Nomex® IIIA fabric.

Table 1 shows the difference in weight for comparable commercially available fabrics of DuPont™ Nomex® and FRT cotton. *The actual weight of fabrics often differs from the manufacturers' specified weight.*

Table 1. Actual vs. Specified Weight Comparisons for NFPA 2112 Certified Fabrics

	Specified Fabric Weight oz/yd'	Actual Fabric Weight oz/yd'	Actual Weight Difference %	Air Permeation cfm/ft'
Nomex® IIIA	4.5	4.7	4	224
	6.0	6.2	3	84
	7.0	7.3	4	29
FRT Cotton/Nylon Fabric	7.0	8.1	16	31

The built-in flame resistance of Nomex® fabric is not only inherent, but it helps manufacturers provide a lighter-weight, more comfortable garment, as well. Nomex® fabric can help give your workers lightweight comfort and outstanding protection.

Customer Service

Canada 1-800-387-9326
Mexico (52)-55-57-22-1222
United States 1-800-931-3456

nomex.com/paper/ap

The information set forth herein is furnished free of charge and based on technical data that DuPont believes to be reliable. It is intended for use by persons having technical skill and at their own discretion and risk. Because conditions of use are outside our control, DuPont makes no warranties, express or implied, and assumes no liability in connection with any use of this information. Nothing herein is to be taken as license to operate under or a recommendation to infringe any patents or trademarks.