

LIGHTWEIGHT COMFORT IN A FLAME-RESISTANT FABRIC

Garments of DuPont™ NOMEX® brand fiber offer the lightweight, comfortable protection your workers are looking for. NOMEX® provides outstanding flame resistance, but that's not all. Fabrics 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 fabrics of NOMEX® for increased comfort and coolness.



INDURA® ULTRASOFT™ FRT COTTON/NYLON
Size 44R Garment Weight 2.63 lbs (1194 grams)
Specified Weight 9.5 oz/yd² (Actual Weight 10.2 oz/yd²)

NOMEX® IIIA
Size 44R Garment Weight 1.33 lbs. (603 grams)
Specified Weight 4.5 oz/yd² (Actual Weight 4.5 oz/yd²)

For example, coveralls of NOMEX® are generally made from fabrics with manufacturers' specified weights as low as 4.5 oz/yd² and 6 oz/yd². In contrast, even the lightest-weight commercially available FRT cotton coveralls are made from fabrics with a specified weight of 7 oz/yd², while the most commonly used FRT cotton fabrics for coveralls have a specified weight of 9 oz/yd². These heavier fabric weights means that FRT cotton garments are typically a full pound or more heavier than garments of NOMEX®, **almost twice the weight.**

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. FRT cotton garments are typically treated with chemical additives, which account for as much as 20% of the weight of the fabric. FRT cotton garments are also bulkier than garments of NOMEX®.



Table 1 shows the difference in weight for comparable commercially available fabrics of NOMEX® and FRT cotton. The actual weight of fabrics often differs from the manufacturer's specified weight. This can be very significant in heavier-weight fabrics, adding as much as an additional 0.9 oz/yd² to FRT cotton fabrics.

Table 1 also shows how these differences in fabric weights might translate into the total weight of a coverall a worker actually wears. Even the heavier-weight (6 oz/yd²) coverall of NOMEX® is almost a **pound lighter** than the standard (9 oz/yd²) FRT cotton coverall, and the lighter-weight (4.5 oz/yd²) coverall of NOMEX® is 1.2 lbs. lighter.

The built-in flame resistance of NOMEX® is not only permanent, but it provides a lighter-weight, more comfortable garment, as well. Choose NOMEX® and give your workers lightweight comfort and outstanding protection.

Table 1				
	Specified Fabric Weight oz/yd ²	Actual Fabric Weight oz/yd ²	Actual Weight Difference oz/yd ²	Actual Garment Weight lbs.
NOMEX® IIIA	4.5	4.5	.0	1.33
	5.5	5.3	-.2	1.48
	6.0	6.2	+.2	1.73
	7.5	7.8	+.3	1.97
Indura® FRT Cotton	6.5	7.0	+.5	2.15
	9.0	9.9	+.9	2.55
Indura® Ultrasoft™ FRT Cotton/Nylon	9.5	10.2	+.7	2.63

Garments tested were as received commercially available size 44R coveralls.

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Product safety information is available upon request.

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