

NOMEX® LIMITEDWEAR

TECHNICAL INFORMATION

Flame-resistant, launderable, short-term-use garments

NOMEX® Limitedwear is a limited use garment that provides the excellent flash fire protection of NOMEX® for temporary employees and visitors to flash fire hazard areas. NOMEX® Limitedwear is oversized and cut into a simple coverall pattern, so it can be comfortably worn over regular cotton work clothes and underwear. These garments, as well as the sewing thread and zipper tape used in their manufacture, are made from inherently flame-resistant DuPont™ NOMEX® brand fiber. Because NOMEX® Limitedwear is launderable, it is machine-washable and can be conveniently cleaned. And, due to its low cost, NOMEX® Limitedwear can be affordably discarded after only limited use.

Outstanding thermal performance

NOMEX® Limitedwear has been certified as compliant with NFPA 2112 guidelines by Underwriters Laboratories. When worn properly over cotton work clothes, a 3-second exposure (6 cal/cm²) in thermal manikin testing (ASTM F1930-99) produces only a 16% predicted body burn. Even at a 5-second exposure, the predicted body burn is only 24%. NOMEX® Limitedwear, a primary protection garment, does not need to be worn over other flame-resistant (FR) clothing as must be done with most disposable FR apparel. And, because NOMEX® Limitedwear is made from DuPont™ NOMEX® brand fiber, its flame resistance is an inherent and permanent property that cannot be washed out.

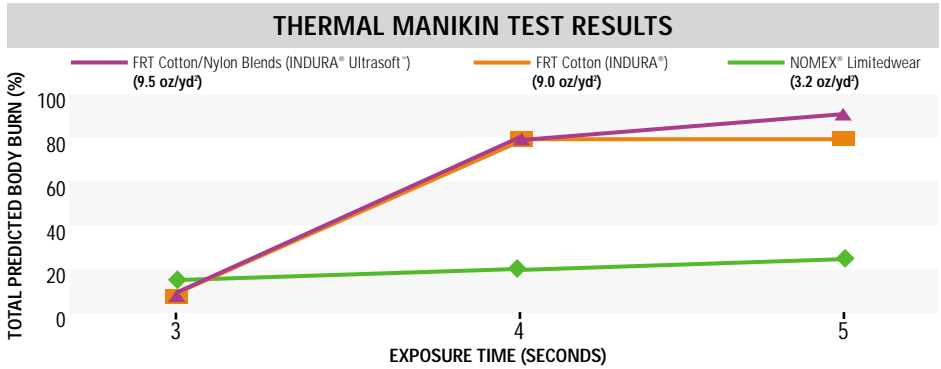
NOMEX® LIMITEDWEAR PERFORMANCE DATA	
TPP, Spaced	11 cal/cm ² (NFPA 2112)
TPP, Contact	7 cal/cm ² (NFPA 2112)
Vertical Flammability, Char Length	2.7 inches (ASTM F-6413)
Vertical Flammability, Afterflame	0.0 sec. (ASTM F-6413)
Thermal Shrinkage, MD/XD	<1% (NFPA 2112)
Breaking Strength, MD/XD	100 lb _f / 90 lb _f
Elmendorf Tear Strength, MD/XD	12 lb _f / 13 lb _f
Launderability	Machine wash in hot water, tumble dry low heat



Tested on THERMO-MAN®

Thermal testing of NOMEX® Limitedwear is done on THERMO-MAN®, an instrumented, six-foot, one-inch tall, high-temperature manikin system with 122 heat sensors. THERMO-MAN® is used to test and measure the protective performance of a variety of garments and clothing systems under simulated flash fire conditions.

THERMO-MAN® is dressed in protective apparel and engulfed in flames so that factors like garment construction, fabric weight, material type, style, fit, and the impact of outerwear and undergarments can be taken into account. Results of these tests are then analyzed to determine the extent of thermal protection provided by the clothing system. THERMO-MAN® is the most advanced life-size thermal burn injury evaluation system in the world today.



Conditions: Coveralls tested as intended to be worn; NOMEX® Limitedwear worn over cotton underwear, shirt and pants; others worn over cotton underwear. Heat flux of 2 cal/cm²-sec; average of three measurements; laundered and dried 1X.

Limited wear, lasting comfort

NOMEX® Limitedwear garments are specifically designed for short-term, limited use. While 7–10 day garment durability was common in field trials among construction workers, this could vary depending on task. And, since many of these tasks are performed in hot environments, keeping workers cool and comfortable is critical. Because NOMEX® Limitedwear is made from a lightweight (3.2 ounces per square yard) fabric, it provides outstanding comfort, excellent breathability and more flexibility than other, more durable FR apparel, which typically weighs 2 to 4 times as much as NOMEX® Limitedwear.

NOMEX® LIMITEDWEAR VS. FRT COTTON		
	NOMEX® LIMITEDWEAR	FRT COTTON (INDURA®)
Fabric Weight	3.2 oz/yd²	9.0 oz/yd²
Air Permeability	>150 cfm/ft²	<50 cfm/ft²

Excellent, affordable protection

NOMEX® Limitedwear delivers excellent flash fire protection at a great value. It complements the durable NOMEX® Workwear and NOMEX® Comfortwear product lines by offering workers low-cost, easy-to-use FR protection for short-term assignments. Comfortable, launderable and flame-resistant, NOMEX® Limitedwear also provides exceptional FR protection for visitors and temporary workers at an affordable price.

When you need outstanding thermal protection for your short-term contract workers and on-site visitors, but also need to keep an eye on the budgetary bottom line, the superior choice is NOMEX® Limitedwear.

For more information on NOMEX® Limitedwear, please visit the NOMEX® web site at www.dupont.com/nomex, contact your local DuPont Protective Apparel representative or call 1-800-453-8527.

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Product safety information is available upon request.
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