

DuPont™ NOMEX® Limitedwear for Military

Technical Information

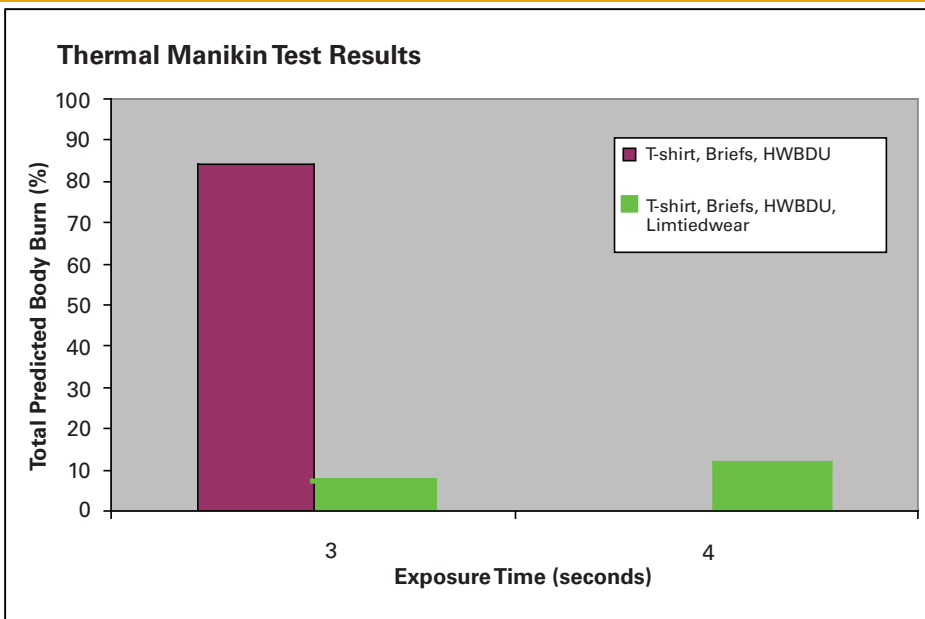
Flame-resistant, launderable, camouflaged, short-term-use garments

NOMEX® Limitedwear for Military is a limited use garment printed with camouflage pattern that provides the excellent fire protection of NOMEX® for soldiers in battlefield or other fire hazard areas. Designed by U.S. Army Natick labs, NOMEX® Limitedwear for Military is oversized, so it can be comfortably worn over regular NYCO battle dress uniforms 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 for Military is launderable, it is machine-washable and can be conveniently cleaned. And, due to its design, NOMEX® Limitedwear for Military can be affordably discarded after limited use.

Outstanding thermal performance

NOMEX® Limitedwear for Military provides excellent protection against fire. When worn properly over regular Hot Weather NYCO BDU's and cotton T-shirt and briefs, a 3-second exposure (6 cal/cm²) in thermal manikin testing (ASTM F1930) produces only a 7% predicted body burn, as compared with a 84% predicted body burn without the NOMEX® Limitedwear for Military coveralls. NOMEX® Limitedwear for Military, 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 for Military is made from DuPont™ NOMEX® brand fiber, its flame resistance is an inherent and permanent property that cannot be washed out.

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See how NOMEX® Limitedwear for Military enhances protection against flame threats.

For the ensemble without Limitedwear, tests beyond 3 seconds exposure time were not conducted due to extreme levels of Total Predicated Body Burn.

Test conditions: Heat flux of 2 cal/cm²-sec;
2 burns for Hot Weather BDU only,
7 burns for all others;
Coveralls tested as intended to be worn.



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DuPont™
NOMEX®

Tested on THERMO-MAN®

Thermal testing of NOMEX® Limitedwear for Military coveralls 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 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.

Limited wear, lasting comfort

NOMEX® Limitedwear for Military is specifically designed for short-term, limited use. Made with a fabric of high tensile and tear strength, it is durable for multiple washes. Since many of the activities that soldiers usually perform are in hot environments, keeping soldiers cool and comfortable is critical. Because NOMEX® Limitedwear for Military is made from a lightweight (3.5 ounces per square yard) fabric, it provides outstanding comfort and excellent breathability.

Excellent, affordable protection

NOMEX® Limitedwear for Military delivers excellent fire protection at a great value. Comfortable, launderable, camouflaged and flame-resistant, NOMEX® Limitedwear for Military coverall offers soldiers easy-to-use FR protection at an affordable price. When you need

outstanding thermal protection for soldiers for short term tasks, but also need to keep an eye on the budgetary bottom line, consider NOMEX® Limitedwear for Military coverall.

For more information on NOMEX® Limitedwear for Military, please contact your local DuPont Protective Apparel representative or call 1-800-931-3456.

Garment Design and Specifications:

The Specifications for Garment design were designed and approved by the US Government. No change can be made to the specification without the prior written permission of the US Government. Using the independent skill and expertise of the US Government, the US Government selected NOMEX® Limitedwear as the fabric for the Garment. The US Government assumes full responsibility for providing appropriate warnings to users of the Garment. The US Government bears all responsibility, risk and liability for performing or having performed all appropriate tests needed to reasonably assure suitability of the fabric and garment and the safety and efficacy of the garment, and for providing garment users with the appropriate use warnings.

NOMEX® Limitedwear for Military Performance Data

Fabric Weight (ASTM D3776)	3.5 oz/yd ²
Air Permeability (ASTM D737)	149 ft ³ /min/ft ²
Vertical Flammability, Char Length MD/XD (ASTM D6413)	3.1 in/3.3 in
Vertical Flammability, Afterflame MD/XD (ASTM D6413)	0.0 sec/0.0 sec
Breaking Strength, MD/XD (ASTM D5034)	93.1 lb _f /87.8 lb _f
Elmendorf Tearing Strength, MD/XD (ASTM D1424)	12.7 lb _f /14.8 lb _f
Launderability	Machine wash in hot water, turn inside out, tumble dry low heat



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Product safety information is available upon request

This information corresponds to our current knowledge on the subject. It is offered solely to provide possible suggestions for your own experimentations. It is not intended, however, to substitute for any testing you may need to conduct to determine for yourself the suitability of our products for your particular purposes. This information may be subject to revision as new knowledge and experience becomes available. Since we cannot anticipate all variations in actual end-use conditions, DUPONT MAKES NO WARRANTIES AND ASSUMES NO LIABILITY IN CONNECTION WITH ANY USE OF THIS INFORMATION. Nothing in this publication is to be considered as a license to operate under or a recommendation to infringe any trademark or patent right.