

Nomex® Comfort with EcoForce™ Technology



Bio-based, non-fluorine chemical repellent finish to help make FR fabrics more sustainable

DuPont™ Nomex® Comfort with EcoForce™ Technology is a sustainable fabric solution that helps deliver superior FR protection, comfort and chemical splash repellency—made with a water and chemical repellent finish that’s comprised of more than 50% bio-based materials and not manufactured with PFAS.

When it comes to advancing protection and sustainability, Nomex® Comfort with EcoForce™ Technology delivers.

Durable, comfortable and sustainable by design



Made using a water and chemical repellent finish* comprised of more than **50% bio-based materials and not manufactured with PFAS**



Certified after **100x** industrial cleaning cycles (ISO 15797) without reapplying the repellent finish**



Delivers the superior heat and flame resistance that chemical and pharma industries, as well as research and lab environment workers need

*No irritation was observed with Nomex® Comfort with EcoForce™ Technology fabric in skin patch test.

**According to ISO 15797 industrial laundering requirements, the fabric continues to maintain its performance in accordance with the initial requirements of EN 13034, EN ISO 11612 and EN 1149-5.

†Significant wash durability of Nomex® Comfort with EcoForce™ Technology fabric can reduce the need for reimpregnation when compared with existing solutions.

Extreme protection



Better protection at longer exposures and higher temperatures



Inherent FR protection that cannot be washed out or worn away



Provides exceptional comfort



Resists tears and abrasion



Helps provide valuable escape time



Repellency efficiency after 100 cleaning cycles†

**According to ISO 15797 industrial laundering requirements, the fabric continues to maintain its performance in accordance with the initial requirements of EN 13034, EN ISO 11612 and EN 1149-5.

Color

Refer to fabric sample for true color representation.



Navy



Royal blue



Red



Orange

Weight

6.0 oz/yd² | 204 g/m²
6.6 oz/yd² | 224 g/m²

Fiber blend

Nomex®, Kevlar®,
antistatic fiber

Treatment

EcoForce™ finish from DuPont

Certifications

Nomex® Comfort with EcoForce™ Technology is certified to meet the listed standards.*



ISO 11612



EN 1149-5



EN 13034†



EN & IEC
61482-2
(ATPV)



NFPA 2112



OEKO
TEX®
STANDARD
100



ASTM 1506

*Certifications for the fabrics vary by region. Contact a DuPont representative for additional details.

**Including ISO 16602 Type 6.

Typical physical properties (ASTM)

Property	Standard	Units/description	Nomex® Comfort with EcoForce™ Technology	Nomex® Comfort with EcoForce™ Technology
Fabric construction	—	—	Ripstop	Twill
Basis weight	ASTM D3776	oz/yd ²	6.6	6.0
Tensile strength (Grab test)	ASTM D5034	Warp (lbf) Weft (lbf)	692 515	321 208
Elmendorf tear	ASTM D1424	Warp (lbf) Weft (lbf)	25 21	9.2 7.2
Dimensional stability after 5 cycles	AATCC 135	Warp (%) Weft (%)	+/- 5 +/- 5	+/- 5 +/- 5

Typical physical properties (ISO, EN)

Property	Standard	Units/description	Nomex® Comfort with EcoForce™ Technology	Nomex® Comfort with EcoForce™ Technology
Fabric construction	—	—	Ripstop	Twill
Basis weight	ISO 3801	g/m ²	224	204
Tensile strength	ISO 13934-1	Warp (N) Weft (N)	1404 1051	1293 857
Tear strength	ISO 13937-2	Warp (N) Weft (N)	107.9 97.1	74 68
Dimensional stability	ISO 5077	Warp (%) Weft (%)	+/- 3 +/- 3	+/- 3 +/- 3

Fabric protection performance

Property	Standard	Units/description	Nomex® Comfort with EcoForce™ Technology 6.6 oz/yd ² 224 g/m ²	Nomex® Comfort with EcoForce™ Technology 6.0 oz/yd ² 204 g/m ²
Arc rating	ASTM F1959 IEC 61482-1-1	cal/cm ²	7.9 cal/cm ²	7.3 cal/cm ²
Thermal manikin	ASTM F1930 at 3 seconds*	TPBI (%)	17	22



Discover more about
Nomex® Comfort with
EcoForce™ Technology

DUPONT
Nomex

dpp.dupont.com

DuPont Personal Protection

This information is based upon technical data that DuPont believes to be reliable. It is subject to revision as additional knowledge and experience become available. It is the user's responsibility to determine the level of toxicity and the proper personal protective equipment needed. The information set forth herein reflects laboratory performance of fabrics, not complete garments, under controlled conditions. This information is intended for use by persons having the technical expertise to undertake evaluation under their own specific end-use conditions, at their own discretion and risk. Anyone intending to use this information should first check that the garment selected is suitable for the intended use. The end-user should discontinue use of garment if fabric becomes torn, worn or punctured, to avoid potential chemical exposure. Since conditions of use are beyond our control, DUPONT MAKES NO WARRANTIES, EXPRESSED OR IMPLIED, INCLUDING BUT NOT LIMITED TO WARRANTIES OF MERCHANTABILITY OR FITNESS FOR A PARTICULAR PURPOSE AND ASSUME NO LIABILITY IN CONNECTION WITH ANY USE OF THIS INFORMATION. This information is not intended as a license to operate under or a recommendation to infringe any trademark, patent or technical information of DuPont or other persons covering any material or its use.

© 2024 DuPont. All rights reserved. DuPont™, the DuPont Oval Logo, and all trademarks and service marks denoted with ™, SM or ® are owned by affiliates of DuPont de Nemours, Inc. unless otherwise noted. OEKO-TEX® is a registered trademark of OEKO-TEX® Service GmbH. (7/24) DSF24_2406-0818