



THERMAL-FR®
with NOMEX®



Naval Air Warfare Center's Multi-Climate Protection System (MCPS)

Layer 2 and 3: Shirt, Pants and Bib Overalls

Polartec® Thermal-FR® with NOMEX®

- Made with NOMEX® for permanent flame resistance
- Will not melt or drip
- Warmth without weight
- Breathable
- Dries quickly
- Durable, machine washable

The MCPS, developed by the Naval Air Warfare Center (NAWC), greatly enhances the safety, comfort and performance of aviators and aircrew. This modular garment system is made using state-of-the-art materials specifically developed to provide flame resistance, moisture management, insulation and, wind and water protection. The MCPS uses seven garments, which are made of three unique flame resistant Polartec® fabrics specifically engineered for this application.

After extensive testing, the Multi-Climate Protection System has been authorized for flight by NAVAIR (U.S. Naval Message 0920052, Oct. 2002)

The MCPS is currently being fielded to U.S. Navy and U.S. Marine Aviators and Aircrew.



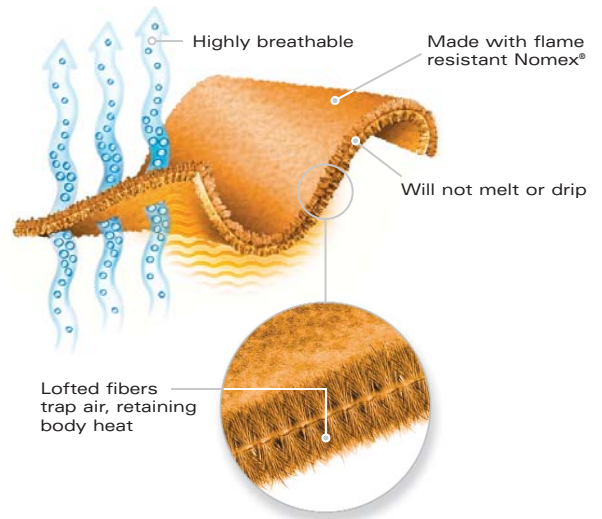
Polartec® Thermal-FR® with NOMEX®

MCPS Layers 2 and 3:

Shirt, Pants, and Bib Overalls

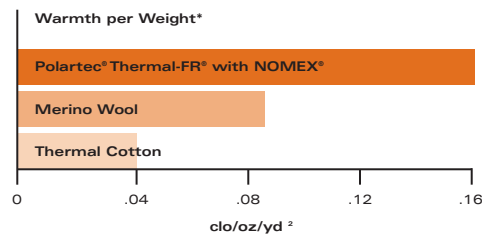
Polartec® Thermal-FR® with NOMEX® is the reference standard for flame resistance, lightweight warmth, and breathability. Since they are made with NOMEX®, they will not melt or drip.

Polartec® Thermal-FR® with NOMEX® keeps you safe, warm and comfortable in a wide range of conditions.



How Does It Work?

The revolutionary construction of Polartec® Thermal-FR® with NOMEX® combines the performance properties of Polartec® Classic 200 fabric with the permanent flame resistance properties of the NOMEX® fiber. Like other Polartec® materials, the velour construction of Polartec® Thermal-FR® with NOMEX®, creates air pockets that trap air and retain body heat. Polartec® Thermal-FR® with NOMEX® brings fabric performance to aviators and aircrews. The fabric offers superior warmth without weight, great breathability, quick drying and is soft and comfortable.



Thermal Transmittance/Insulation Test:
The test is conducted on a Reeves Thermal tester, S/N 1623. Insulation property is measured in clo values. The higher the clo value, the greater the insulation properties.

Technical Highlights

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- Warmth without weight
- Breathable
- Dries quickly
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