BLACK MOISTURE BARRIER

Most breathable in more conditions, while providing enhanced durability in use.







- Most breathable in more conditions to help manage heat stress better
- Enhanced durability backed by a 3.5-year limited warranty
 - Remained thermally stable, even after exposure to extreme heat
 - Long-lasting protection against blood, body fluids, NFPA common chemicals, and water



CROSSTECH® Black Moisture Barrier



crosstech.com

Most breathable in more conditions to help manage heat stress better

CROSSTECH® black moisture barrier offers the highest breathability in more conditions. The unique properties of CROSSTECH® black moisture barrier offer lower resistance, allowing for your body's sweat vapor to pass through your gear more easily. This mechanism is essential in helping to maintain lower body core temperatures and thereby diminishing the effects of heat stress in the conditions where it is particularly a problem. CROSSTECH® black moisture barrier continues to have high total heat loss (THL) that exceeds NFPA 1971 requirements.

Enhanced durability backed by a 3.5-year warranty

Moisture barriers should protect you against liquid penetration on every call, not just the first few. Field testing showed that CROSSTECH® black moisture barrier remained significantly more liquid-proof and less prone to damage, delivering excellent breathability and protection call after call after call. This level of durability is backed by a 3.5-year limited warranty to help you comply with the 2014 edition of the NFPA 1851 Standard.

Excellent thermal stability

Just because most moisture barriers used in North America meet the minimum requirements specified in NFPA 1971 (2013 edition), they don't all perform equally. CROSSTECH® black moisture barrier maintained its high breathability and waterproof protection even after exposure to extreme heat, and also robustly met all heat and thermal shrinkage requirements.

Long-lasting protection against liquid penetration

As you work at an emergency scene, some of the most dangerous hazards are the ones you cannot see, and exposure to NFPA common chemicals,* blood, and body fluids is a serious concern. Testing showed that CROSSTECH® black moisture barrier provided a level of protection that exceeds the current NFPA 1971 Standard - even after 25 wash/dry cycles and 5 thermal exposures.

The Gore Advantage

For over 35 years W. L. Gore and Associates has supported the fire fighting industry and has been trusted by fire departments throughout North America to protect their firefighters. Gore leverages its unparalleled expertise in materials and comfort science to create reliable and innovative products for the most critical of applications in the most demanding of environments. We work closely with end users to understand their needs which enables us to engineer products that do what we say they will do. This is Gore's fitness for use philosophy.

CROSSTECH® BLACK MOISTURE BARRIER



Breathability Beyond THL Test Conditions Resistance to the Evaporation of Sweat (Ret)



Lower is Better.

CROSSTECH® black moisture barrier is more breathable, having lower resistance to the evaporation of sweat vapor than other moisture barriers. Lower resistance allows for your body's sweat vapor to pass through your gear more easily, helping the body to stay cooler, and reducing the effects of heat stress.

The THL test measures both conductive and evaporative heat loss through a sample in one moderate environmental condition. To understand it's breathability in other conditions, the evaporative resistance component can be determined by using the Resistance to the Evaporation of Sweat (Ret) test. The sweating guarded hotplate is used for both of these tests.



Meets or Exceeds Standards NFPA 1971 (2013 Edition) Standard on Protective Ensembles for Structural Fire Fighting and Proximity Fire Fighting Component recognized by Underwriters Laboratories Component recognized by Underwriters Laboratories **N** *Common chemicals include battery acid (37% sulfuric), ASTM Ref. Fuel C (unleaded gasoline surrogate)

hydraulic fluid (phosphate ester), aqueous film-forming foam (AFFF), and swimming pool chlorine solution (65% free Cl). **Evaluated in Environment of 95°F/35°C, 40% RH, No Radiant Heat (per ISO 11092/ASTM F1868, Part B) WARNING: No products, including garments, footwear, and gloves, protect completely, even when new; their protective performance will decline with wear, tear, abrasion, and other damage associated with use.

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