

GORE® FR APPAREL

Engineered with GORE-TEX® PYRAD®
FABRIC

GORE-TEX® PYRAD® laminates have been certified to the ASTM 2733-09 Standard Specification for Flame Resistant Rainwear for Protection Against Flame Hazards and ASTM 1891-12 Standard Specification for Arc and Flame Resistant Rainwear.

The typical observed performance for 2-layer Navy garments is presented in the table below.

Property	Test Method	Typical value
Weight	ASTM D3776	5.9oz/yd ²
Flash Fire Resistance	ASTM F2733-09	Meets or exceeds requirements
Predicted body burn in Manikin Flashfire Test	ASTM F1930-15 on instrumented manikin per ASTM F2733-09, 3 second Pyroman over cotton t-shirt and shorts	<10% total 2 nd and 3 rd degree burn (head sensors excluded) <16% total 2 nd and 3 rd degree burn (head sensors included)
Flammability	ASTM 6413	Afterflame <2 seconds, Char <4 inches
Electric Arc Resistance	ASTM F1891-12	E _{BT} = 8.8cal/cm ²
Heat Transfer Performance (HTP)	NFPA 2112 Single Layer Spaced	>19cal/cm ²
Water Vapor Transmission (breathability)	ASTM E96	>4500gm/m ² /24hr
Air Permeability		Not air permeable
Hydrostatic Resistance	ASTM D3393 @ 30 psi	No leakage
Steam Resistance	150C @ 55psi (379kPa _g) on instrumented manikin per ASTM F1930-15 (Apparel Innovation Centre)	<0.5% total 2 nd and 3 rd degree burn
Hot Liquid Resistance	92C @ 35psi (240kPa _g) instrumented manikin per ASTM F1930-15 (University of Alberta)	<5% total 2 nd and 3 rd degree burn
Trapezoidal Tear Strength Resistance	ASTM D1117	>2.7 Kg, warp/fill >2.7 Kg (post 5 wash cycles), warp/fill
Background color and retro-reflectivity (navy)	ANSI/ISEA 107-15, Type O, Class 1	Meets total area requirements (jacket and bib combined)
	CSA Z96-15, Class 1, Level 2	Meets total area requirements (jacket and bib combined)

Warning: Garments constructed with GORE-TEX® PYRAD® laminates are considered performance flame resistant outerwear that must be worn over underclothing made of flame resistant or natural fibers. The garment is not intended for fire entry, structural or wild land fire-fighting activities. In order to provide intended burn protection for the wearer, the garment must be worn properly and care instructions must be followed. All closures must be completely fastened to eliminate openings and draw-cords should be tightly cinched to create the proper fit. Failure to follow the care instructions could adversely affect the protection offered by the garment. W.L. Gore & Associates makes no guarantee of how the garment will perform in actual use.

GORE-TEX®, GORE®, PYRAD® and designs are trademarks of W.L. Gore & Associates.