

StedAIR® PREVENT

PARTICULATE BARRIER PROTECTION FOR FIREFIGHTER HOODS.

	Test Name	NFPA 1971 Performance Requirement Paragraph	Test Method	Specification	Stedair® Prevent	Comment
PROTECTION	*TPP	7.13.2, par. 8.10	ISO 17492	> 20.0	25	Meets & exceeds
	Flame Resistance	7.13.3, par. 8.2	ASTM D 6413	< 100 mm Char, < 2-sec Burn, No Melt, No Drip	0.0 s; 85 mm (L); 0.0 s; 77 mm (W)	Meets & exceeds
	Heat and Thermal Shrinkage	7.1.4 and 7.1.5, par. 8.6	ISO 17493	< 10%, No Melt, Separation or Ignition	5.2 %(L); 6.8% (W)	Meets & exceeds
	*Particulate Blocking Test INITIAL	7.14.2, par. 8.71	ASTM F2299	Particulate efficiency > 90% (0.1-1.0 micron)	> 99.99% (0.1-1.0 micron)	
COMFORT	THL	7.14.3, par.8.33	ASTM F 1868 Part C	> 325 W/m2	704 W/m2	
	*THL	7.14.3, par.8.33	ASTM F 1868 Part C	> 325 W/m2	427 W/m2	Meets & exceeds
	Air Permeability	Not Required	ASTM D 737 (Frazier Air Perm)	Not Required	10 CFM	
DURABILITY	Bursting Strength	7.13.8, par. 8.13	ASTM D 6797	> 225 N (51 lbf) Individual Layers	550 N	Meets & exceeds
	*Particulate Blocking Test AFTER 2X Conditioning	7.14.2, 8.1.2 (2x) 8.1.3, 8.1.5	AATCC 135 Method 1, v, Ai ASTM D 1776	Particulate efficiency > 90% (0.1-1.0 micron)	> 99.99% (0.1-1.0 micron)	Meets & exceeds

*when tested with one layer of 8oz/yd2 Nomex® knit



STEDFAST Inc. is introducing a highly breathable, air permeable, flexible, and flame resistant material offering superior **particulate blocking performances**. Stedair® PREVENT, consists of a composite barrier made from Stedair® moisture barriers proprietary technology.

Firefighters neck and head areas are vulnerably exposed and highly sensitive to concentrations of toxic chemicals and permeation to the skin. Average hoods' offer a limited protection against these toxic particles. Stedair® PREVENT offers outstanding breathability, increased air permeability and a unique construction for ease of movement and flexibility. These combined properties also enable Stedair® PREVENT to minimize heat stress.

Stedair® PREVENT when tested accordingly to NFPA 1971 not only meets the required 90% blocking efficiency but surpasses with results of 99.99% blocking efficiency with marginal loss after extreme conditioning against particle size.

COMFORT AND PROTECTION A COMPROMISE? NOT ANYMORE.

