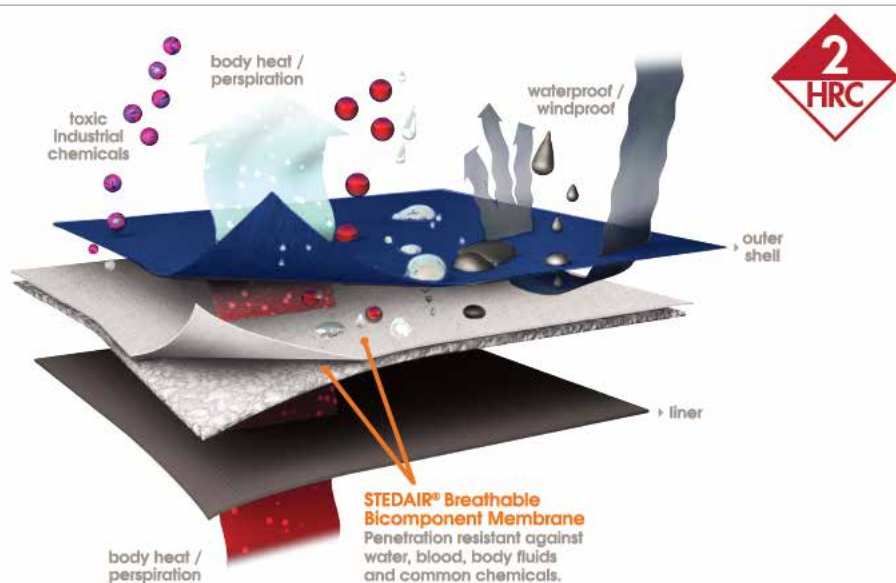


# Chemical Barriers

# StedAIR®

COBALT

The ultimate chemical and flame resistant protection against flash fire and electric arc hazards



Stedair® Cobalt– FR trilaminate combining Nomex® III A and a bi-component e-PTFE membrane

## FEATURES AND BENEFITS:

- Certified NFPA 2112
- Arc Flash Protection – NFPA 70E Level 2
- Flame Resistant – ASTM F2733
- Resistant to viral and chemical penetration
- Compliant NFPA 1992
- Electric Arc Resistance
- Chemical Splash Resistance
- Flash Fire Resistance
- Excellent breathability
- Waterproof and windproof

## RECOMMENDED END USE APPLICATIONS

- Protective clothing for Emergency
- Medical Services
- Electric Arc hazard protective garment
- Urban search and Rescue protective clothing
- Chemical protective garments

## CHEMICAL RESISTANCE

- Contact your account executive for the list of chemical protection

# Chemical Barriers

# SPECIFICATION

FR trilaminate combining Nomex® IIIA and ePTFE membrane

Weight	CAN/CGSB-4.2 method 5.1	8.3 osy
Hydrostatic Resistance	ASTM D751	50 psi
Water Vapor Diffusion as per MIL DTL 31011B	ASTM E96 Procedure B ASTM E96 Procedure BW	625 GSM / 24 hrs 7200 GSM / 24 hrs
Flame Resistance-warp	ASTM D6 413 Initial and after 100 W	After flame: 2 sec max (avG 0.6) Char length: 4" max (avG 1.96)
Flame Resistance-weft	ASTM D6 413 Initial and after 100 W	After flame: 2 sec max (avG 0.6) Char length: 4" max (avG 2.4)
Arc Thermal Performance (ATPV)	ASTM F1959	ATPV : 9 cal/cm <sup>2</sup> HAF: 77 % EBTAS: 20 cal/cm <sup>2</sup>
Total Heat Loss (THL)	ASTM F1868 part C	540 W / m <sup>2</sup>
Biopenetration Test	ASTM F1671	Pass
Heat and Thermal Shrinkage	NFPA 2112 Initial and after 3 washes (500F for 5 min.)	Warp : max 10% (average : -2) Weft : max 10% (average : -1.5)
Flash Fire Exposure (Manikin Test)	ASTM F1930 % of body burn {2.0cal/cm <sup>2</sup> /sec} @ 3sec	Max 50% body burn (average :10.39)
Thermal Protective Performance Spaced	NFPA 2112	As received : Minimum 6 cal/cm <sup>2</sup> (average :17.1) After 3W : Minimum 6 cal/cm <sup>2</sup> (average :18.7)
Thermal Protective Performance Contact	NFPA 2112	As received : Minimum 3 cal/cm <sup>2</sup> (average :11.3) After 3W : Minimum 3 cal/cm <sup>2</sup> (average :13.4)

## SEAM SEALING

Stedair® Cobalt offers outstanding water and liquid resistance. Manufacturing garments will produce small holes in the fabric that will impact its protection. To ensure optimal protection, Stedfast offers to the manufacturer: specialized seam tapes, seam sealing equipment, daily set-up instructions and onsite assistance .



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