

# STEDAIR<sup>®</sup> COBALT

**INDUSTRIAL  
SAFETY**

Electric arc  
Flash fire

**COMPLIANCE**

NFPA 70E HRC 2  
NFPA 2112  
ASTM F 2733

## THE ULTIMATE CHEMICAL AND FLAME RESISTANT PROTECTION AGAINST FLASH FIRE AND ELECTRIC ARC HAZARDS

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

### Features and Benefits:

- Certified NFPA 2112
- Compliant to ASTM F2733
- NFPA 70E Level 2
- Resistant to viral and chemical penetration
- Inherent Flame Resistance
- Electric Arc Resistance
- Chemical Splash Resistance
- Flash Fire Resistance
- Excellent breathability
- Water proof and wind proof

### Recommended End Use Applications

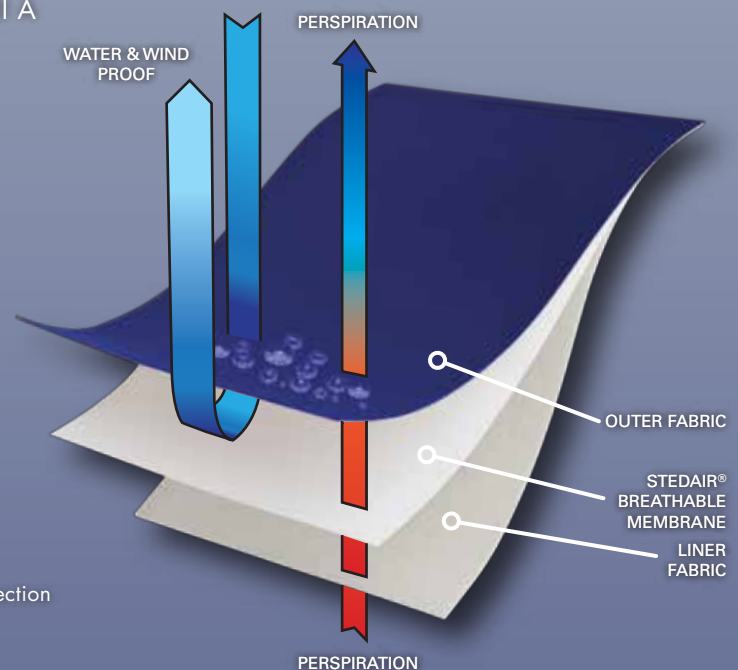
- Protective clothing for Emergency Medical Services
- Electric Arc hazard protective garment
- Urban search and Rescue protective clothing
- Chemical protective garments

### Chemical Resistance

- Contact your account executive for the list of chemical protection

### Seam Sealing

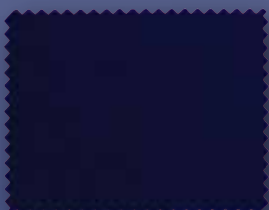
Stedair<sup>®</sup> Cobalt offers outstanding water and liquid resistance. Manufacturing garments will produce small holes in the fabric that will impact its protection. That is why the seams must be completely sealed. To ensure optimal protection, Stedfast offers to the manufacturer : expertise, seam tapes, support and seam taping equipment.



PENETRATION RESISTANT AGAINST WATER, BLOOD,  
BODY FLUIDS AND COMMON CHEMICALS



### STEDFAST COLOR OPTIONS



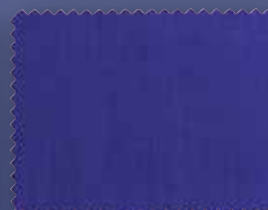
Navy



Orange



Khaki



Royal Blue



Red

[www.Stedfast.com](http://www.Stedfast.com)

# STEDAIR® COBALT

PROTECTION, INNOVATION, DURABILITY.

## SPECIFICATION

FR trilaminate combining Nomex® IIIA and ePTFE membrane

<b>WEIGHT</b>	CAN/CGSB-4.2 METHOD 5.1	8.3 OPSY
<b>HYDROSTATIC RESISTANCE</b>	ASTM D751	50 PSI
<b>WATER VAPOR DIFFUSION AS PER MIL DTL 31011B</b>	ASTM E96 PROCEDURE B ASTM E96 PROCEDURE BW	625 GSM / 24 HRS 7200 GSM / 24 HRS
<b>FLAME RESISTANCE-WARP</b>	ASTM D6413 INITIAL AND AFTER 100 W	AFTER FLAME: 2 SEC MAX (AVG 0.6) CHAR LENGTH: 4" MAX (AVG 1.96)
<b>FLAME RESISTANCE-WEFT</b>	ASTM D6413 INITIAL AND AFTER 100 W	AFTER FLAME: 2 SEC MAX (AVG 0.6) CHAR LENGTH: 4" MAX (AVG 2.4)
<b>ARC THERMAL PERFORMANCE (APTV)</b>	ASTM F1959	ATPV : 9 CAL/CM <sup>2</sup> HAF: 77 % EBTAS: 20 CAL/CM <sup>2</sup>
<b>TOTAL HEAT LOSS (THL)</b>	ASTM F1868 PART C	540 W/M <sup>2</sup>
<b>BIOPENETRATION TEST</b>	ASTM F1671	PASS
<b>HEAT AND THERMAL SHRINKAGE</b>	NFPA 2112 INITIAL AND AFTER 3 WASHES (500F FOR 5 MIN.)	WARP : MAX 10% (AVERAGE : -2) WEFT : MAX 10% (AVERAGE : -1.5)
<b>FLASH FIRE EXPOSURE (MANIKIN TEST)</b>	ASTM F1930 % OF BODY BURN {2.0CAL/CM <sup>2</sup> /SEC} @ 3SEC	MAX 50% BODY BURN (AVERAGE :10.39)
<b>THERMAL PROTECTIVE PERFORMANCE SPACED</b>	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)
<b>THERMAL PROTECTIVE PERFORMANCE CONTACT</b>	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)



**STEDFAST USA**

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ADVANCED BARRIER TECHNOLOGIES  
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**STEDFAST CANADA**

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