

# PYROLON® CBFR

Advanced Chemical Barrier and  
Flame Resistance for the Highest  
Chemical Hold-Out

Pyrolon® CBFR Applications

Ammonia

Hydrofluoric Acid

Petrochemical

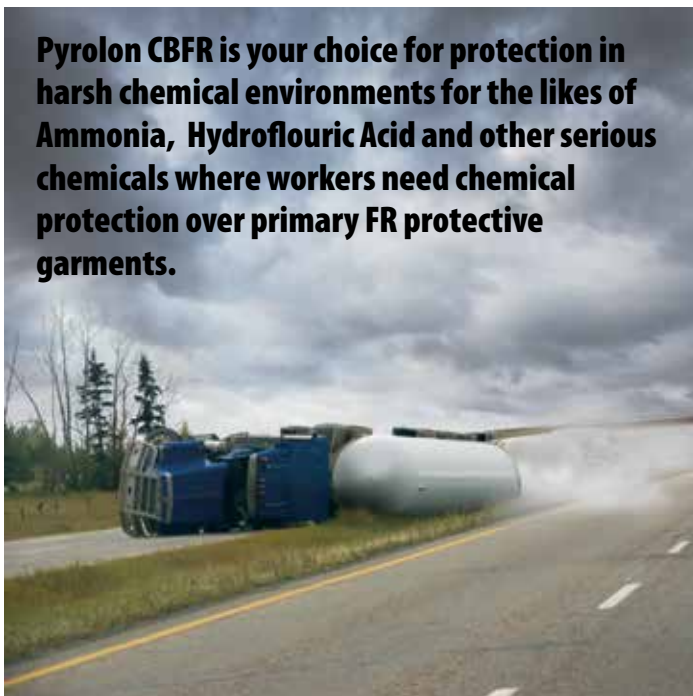
 **Lakeland**®



Heat Sealed  
Seam

Pyrolon CBFR - Advanced chemical protection and self extinguishing FR protection. Designed to be worn over primary FR protective clothing, for environments where both chemical exposures and flash fire are a concern. This advanced chemical barrier is self-extinguishing, won't melt or drip, and meets the NFPA 2113 requirements for section 5.1.9.

**Pyrolon CBFR is your choice for protection in harsh chemical environments for the likes of Ammonia, Hydrofluoric Acid and other serious chemicals where workers need chemical protection over primary FR protective garments.**



Respirator fit hood

Tape sealed seams

Protective storm flap over zipper

Styles with and without attached boots

**Secondary FR and Chemical Protective Garment**

**Primary FR Protective Garment**



## Pyrolon® CBF Brand Features:

Combines Advanced Chemical Barrier with Flame Resistance

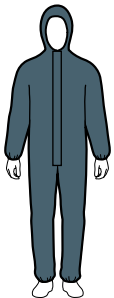
Higher Chemical Hold-out Than CRFR

Chemical Permeation Data Available

Lower Predicted Body Burn when Paired with Lakeland's 6.5 oz. Westex® DH FR Coverall

ANSI/ISEA 203 for Secondary Single-Use Flame Resistant Protective Clothing for Use Over Primary Flame Resistant Protective Clothing

### Pyrolon® CBF Configurations



**Coverall 52132**

- Respirator-fit hood
- Storm flap over zipper
- Elastic face, wrists and ankles

Sizes: S - 5XL  
Case Pack: 6



**Coverall 52151**

- Respirator-fit hood
- Storm flap over zipper
- Elastic face and wrists
- Attached boots

Sizes: S - 5XL  
Case Pack: 6

### Pyrolon® CB-FR Physical Properties Physical Properties

Physical Property	Test Method	Units	Test Results
Basis Weight	ASTM D3776	oz./sq. yd	7.16 oz/y2
Thickness	ASTM D1777	mils	12
Grab Tensile MD	ASTM D5034	lbs.	55.2 lbs.
Grab Tensile XD	ASTM D5034	lbs.	42.88 lbs.
Mullenburst	ASTM D3786	psi	32.5
Trapezoidal Tear MD	ASTM D5587	lbs.	16.28 lbs.
Trapezoidal Tear CD	ASTM D5587	lbs.	24.08 lbs.
Surface Resistance	EN1149	Ω	Pass

### Pyrolon® CB-FR Permeation Testing - ASTM F1001

Chemical	CAS Number	Physical State	Concentration	ASTM F739	EN 369
Acetone	67-64-1	Liquid	99%	>480	>480
Acetonitrile	75-05-8	Liquid	99%	>480	>480
Acrylonitrile	107-13-1	Liquid	99%	>480	>480
Benzene	71-43-2	Liquid	99%	>480	>480
Carbon Disulfide	75-15-0	Liquid	99%	>480	>480
Crude Oil	Various	Liquid	Mixture	58	>480
Dichloromethane	75-09-2	Liquid	99%	>480	>480
Diesel Fuel	Various	Liquid	Mixture	>480	>480
Diethylamine (DEA)	109-89-7	Liquid	99%	130	309
Dimethylformamide (DMF)	68-12-2	Liquid	99%	>480	>480
Ethyl Acetate	141-78-6	Liquid	99%	>480	>480
Gasoline	Various	Liquid	Mixture	138	>480
Hydrofluoric Acid	7664-39-3	Liquid	48%	>480	>480
n-Hexane	110-54-3	Liquid	99%	>480	>480
Methanol	67-56-1	Liquid	99%	25	33
Nitrobenzene	98-95-3	Liquid	99%	>480	>480
Sodium Hydroxide, 50%	1310-73-2	Liquid	50%	>480	>480
Sulfuric Acid 93.1% 66°B	7664-93-9	Liquid	93%	>480	>480
Tetrachloroethylene (perc)	127-18-4	Liquid	99%	>480	>480
Tetrahydrofuran (THF)	109-99-9	Liquid	99%	13	21
Toluene	108-88-3	Liquid	99%	>480	>480

#### Gases

Ammonia Anhydrous	7664-41-7	Gas	99%	>480	>480
1, 3-Butadiene inhibited 99%	106-99-0	Gas	99%	>480	>480
Chlorine 99.5%	7782-50-5	Gas	99%	>480	>480
Ethylene Oxide 99.7%	75-21-8	Gas	99%	>480	>480
Hydrogen Chloride 99%	7647-01-0	Gas	99%	182	>480
Methyl Chloride 99.5%	74-87-3	Gas	99%	>480	>480

Note: Chemical Resistance Data is in accordance with ASTM F739 test method. Testing is performed on fabric samples only, not finished garments. Sources for all test data are independent laboratories. All tests were performed under laboratory conditions and not actual use conditions.

### Pyrolon® CB-FR Predicted Body Burn when worn over a Lakeland® 6.5 oz. Westex® DH FR Coverall (includes the head)

**6.5 oz. Westex® DH coverall alone – 16.4% Total Body Burn**

Burn	2nd Degree	3rd Degree	Average
Garment 1	0%	6.56%	6.56%
Garment 2	0.82%	6.56%	7.38%
Garment 3	2.46%	6.56%	9.02%
<b>Overall Average</b>			<b>7.65%</b>