MICROCHEM® by AlphaTec™ CFR

MICROCHEM® by AlphaTec™ CFR is a flame retardant and antistatic fabric offering protection from particulates and light liquid spray or splash without compromising worker protection in the event of a flash fire*.

*Must be worn over thermal protective garments, such as NOMEX® or PYROVATEX®, and never be worn next to the skin.

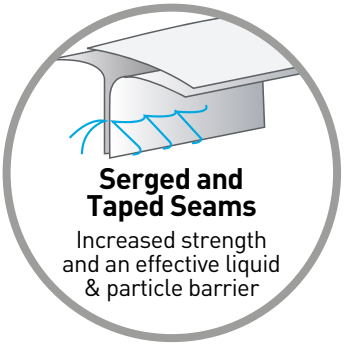
Features & Benefits

Protection - Flame retardant treated fabric with PVC barrier film offering wearers protection from liquid chemicals

Versatile - In most applications where there is the need for protection from chemical spray without compromising wearer protection in the event of a flash fire

Optimized body fit - Improves wearer comfort and safety

Highly visible - Highly visible bright red color to improve worker safety



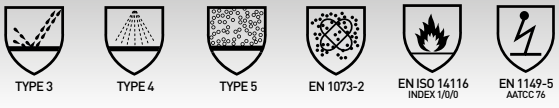
Serged and Taped Seams

Increased strength and an effective liquid & particle barrier

Applications

- Oil and petrochemicals
- Petroleum distribution and processing
- Utilities

Protection Levels & Additional Properties



CAUTION: This product contains natural rubber latex which may cause allergic reactions.

Style 68-CFR

Suit Features
- Collar (Model 103)
- 2 piece hood (Model 111)
- Elasticated hood, wrists and ankles
- Double zip closure
- Also available with reflective hi-vis tape (Model 113 - please see catalog)

Sizes: S-5XL (02-09)
Color: Red

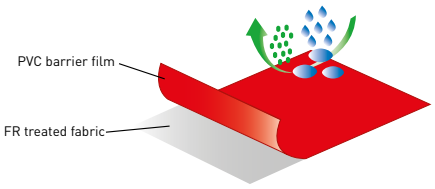

(Model 103) (Model 111)

CATALOG #: Model 103: **RD96-T-92-103** | Model 111: **RD96-T-92-111** | Model 113: **RD96-T-92-113**

MICROCHEM by AlphaTec - Ansell - North America
111 Wood Avenue, Suite 210, Iselin, NJ 08830
USA: **1-800-800-0444** Canada: **1-800-363-8340**
www.ansell.com

MICROCHEM® by AlphaTec™

Technical Data



Chemical Barrier Performance		
Chemical Name	**ASTM F903 Penetration (min)**	**ASTM F739 Permeation (min)**
Acetone	>60	12
Carbon Disulfide	>60	7
Dichloromethane	2	4
Ethyl Acetate	>60	16
Hexane	>60	>480
Sulfuric Acid	35	38
Tetrachloroethylene	>60	>480
Toluene	>60	6

CFR Technical Data

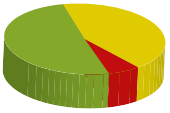
CFR is extensively tested according to North American, European and International standards for both physical and barrier performance. More information is available to download from our website **www.ansell.com**

Fabric Physical Properties	**Test Method**	**Units**	**Results**
Tensile strength (MD)	ASTM D1117/D1682	lbs	30.8
Tensile strength (CD)			25.9
Burst strength	ASTM D3786-87	lbs	39.8
Surface resistance at RH 25%	EN 1149-5	Ohms	$<2.5x10^9$
Thermal Properties	**Test Method**	**Units**	**Results**
Vertical flammability	NFPA 701: 1989 Small Scale	-	Pass
	NFPA 701: 1999	-	Pass
Flame spread	ISO 15025 Procedure A	-	Index 1
After flame	ASTM F1930	Sec	<2.0
Thermal protective performance	NFPA 1971-97	-	6.8

Simulated flash fire test data

ASTM F 1930
Standard test method for evaluation of flame resistant apparel for protection against flash fire simulations using an instrumented mannequin.

Body Burn Prediction
Flame Exposure Time: 3.5 seconds (data acquisition time 30 seconds)*
Mean heat flux: 2 cal/cm².sec



Apparel System A

- 2nd degree burns = 43%
- 3rd degree burns = 6.56%
- No burn

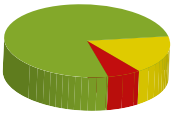
% Total burn = 49.56%

Nomex® only

Outer layer – Single use 1.9 oz/yd² microporous film laminate coverall

Mid layer – Inherently FR 6.0 oz/yd² thermal protective coverall

Base layer – no underwear



Apparel System B

- 2nd degree burns = 17.76%
- 3rd degree burns = 6.56%
- No burn

% Total burn = 24.32%

MICROCHEM by AlphaTec CFR coverall over Nomex®

Outer layer - with MICROCHEM by AlphaTec CFR coverall

Mid layer – Inherently FR 6.0 oz/yd² thermal protective coverall

Base layer – no underwear

Note: The burn injury results are expressed by calculating the percentage burn injury based on the total area of mannequin covered by the garments under test being 100%. For these tests the head, hands and feet were therefore not included in the calculations.

Technical Support

For copies of the simulated flash fire test reports contact our technical team on **customerserviceus@ansell.com**

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