



**MICROCHEM<sup>®</sup> by AlphaTec™ 2000** provides both protection and comfort with exceptional liquid and particulate protection. Ideal for a wide range of industrial applications.

**Features & Benefits**

**Protection** - Excellent liquid penetration resistance and barrier to fine particulates (>0.01 μm\*) including ASTM F1761 and EN 14126:2003 resistance to penetration of blood, body fluids and blood-borne pathogens

**Comfort** - Moisture vapor permeable ("breathable") to help reduce the risk of heat stress

**Silicone free** - Critical in paint spraying applications

**Low linting** - Reduces the risk of fiber contamination in some critical areas

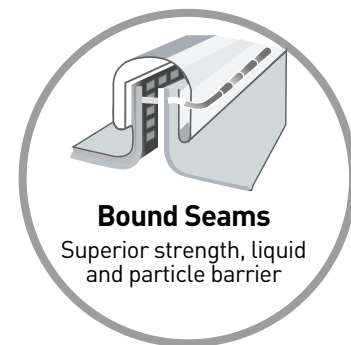
**Optimized body fit** - Improves wearer comfort and safety

**Anti-static** - Tested according to EN 1149-5 and AATCC 76

\*EMSL test method

**Applications**

- Pharmaceutical industries
- Agriculture
- Cleanrooms
- Paint spraying
- Crime scene investigation
- Veterinary services
- Food



**Protection Levels & Additional Properties**



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

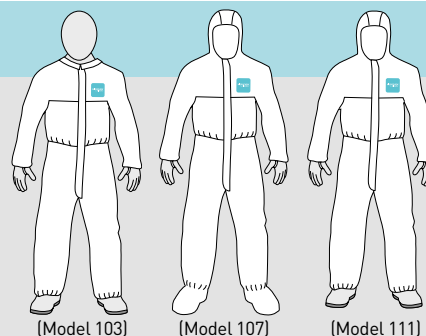
**Styles 68-2000**

**Suit Features**

- Collar (Model 103)
- 3 piece hood & attached anti-skid boots (SureStep sole) (Model 107)
- 3 piece hood (Model 111)
- Elasticated hood, wrists and ankles
- 2-way front zipper with re-sealable storm flap
- Also available in Models 113, 147 and 156, please see catalog
- Also available in fall-protection compatible version (Model 162 please see catalog)

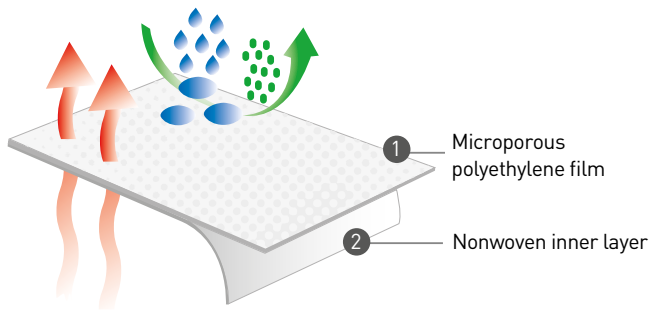
**Sizes:** S-5XL (02-09)

**Color:** White



CATALOG #: Model 103: **WH20-B-92-103** | Model 107: **WH20-B-92-107** | Model 111: **WH20-B-92-111**

## Technical Data



2000 is designed to allow water vapour (perspiration) to escape from the suit yet will withstand saturation of liquid chemicals and filter 100% of particulates down to 0.01 microns in size\*

The use of a high quality two-way stretch microporous film provides an effective liquid and particle barrier combined with a high water vapour transmission rate from inside to outside.

Fabric Physical Properties	Test Method	Units	Results*
Tensile strength (MD)	ASTM D5034	lbs	19.0
Tensile strength (CD)			28.2
Tear resistance (MD)	ASTM D5733	lbs	7.9
Tear resistance (CD)			12.2
Burst strength	ASTM D3787	lbs	25
Puncture propagation tear resistance	ASTM D2582	N	21.0
Flame spread	16 CFR §1610	sec	IBE ***
		(class)	(1)
Surface resistance at RH 40% - Face	AATCC 76	Ohms	2.4 x 10 <sup>9</sup>
Surface resistance at RH 40% - Back			2.85 x 10 <sup>9</sup>
Surface resistance at RH 20% - Face			1.85 x 10 <sup>11</sup>
Surface resistance at RH 20% - Back			3.1 x 10 <sup>11</sup>
Whole suit inward leakage **	EN ISO 13982-1	%	1.827
Barrier Properties	Test Method	Units	Results*
Fabric hydrohead (Resistance to water penetration)	ISO 20811	cm H <sub>2</sub> O	>200
Fabric Particle filtration efficiency (>0.01µm particle size)	JSTIIF EMSL Ultrasonic	% filtered	100
Comfort Properties	Test Method	Units	Results*
Thermal resistance	ISO 11092	R <sub>ct</sub>	16.3 x 10 <sup>-3</sup>
Water vapor resistance		R <sub>et</sub>	<15
Water vapor transmission rate	ASTM E96, Method B	g/m <sup>2</sup> / 24hr	897

\* Unless specified the test data is applicable to the white version only. For test results on other colors please contact [customerserviceus@ansell.com](mailto:customerserviceus@ansell.com)

\*\* Whole suit particle inward leakage testing performed with self-adhesive tape sealing the full face respirator, gloves and boots to the coverall and additional tape applied over the zipper flap. Particle size range of 0.02-2 microns with a mass median of 0.6 microns. Data for model 111 coveralls. Result for other models may vary. Please contact the Ansell technical team for information on a specific model at [customerserviceus@ansell.com](mailto:customerserviceus@ansell.com)

\*\*\* Ignited but extinguished

**Biological Barrier Properties** - 2000 test data for resistance to penetration of infective agents and blood borne pathogens is detailed below.

Property	Test Method	Result
Resistance to penetration by blood borne pathogens	ISO 16604	Pass to 20 kPa
Resistance to penetration by blood borne pathogens	ASTM F1671	Pass
Resistance to wet bacterial penetration (mechanical contact)	ISO 22610	No penetration (up to 75 min)
Resistance to biologically contaminated aerosols	ISO/DIS 22611	No penetration
Resistance to dry microbial penetration	ISO 22612	No penetration

MICROCHEM by AlphaTec - Ansell - North America

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