

**MICROCHEM®**  
by AlphaTec™

# 2000 COMFORT

**MICROCHEM®**  
by AlphaTec™  
**2000**



**MICROCHEM® by AlphaTec™ 2000 COMFORT** has been specifically designed for those working in warmer climates or warm working environments to help reduce the risk of heat stress.

## Features & Benefits

**Protection** - Hood, arms, legs and front torso in 2000 fabric

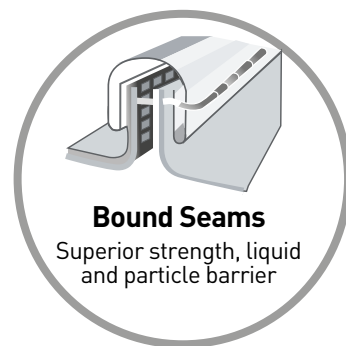
**Comfort** - Air and water vapor permeable ("breathable") to help reduce the risk of heat stress

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

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

## Applications

- Pharmaceutical industries
- Cleanrooms
- Paint spraying
- Veterinary services
- Pest control



### Bound Seams

Superior strength, liquid and particle barrier

## Protection Levels & Additional Properties



TYPE 5



TYPE 6



EN 1073-2



EN 1149-5  
AATCC 76

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

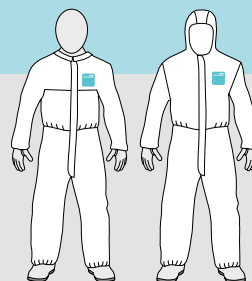
## Styles 68-2000C

### Suit Features

- Collar (Model 177)
- 3 piece hood (Model 129)
- Elasticated hood, wrists, waist and ankles
- 2-way front zipper with re-sealable storm flap
- Breathable SMS back panel

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

**Color:** White



(Model 177)

(Model 129)



Breathable back panel to help  
reduce the risk of heat stress

CATALOG #: Model 129: **WH20-B-92-129** | Model 177: **WH20-B-92-177**

MICROCHEM by AlphaTec - Ansell - North America

111 Wood Avenue, Suite 210, Iselin, NJ 08830

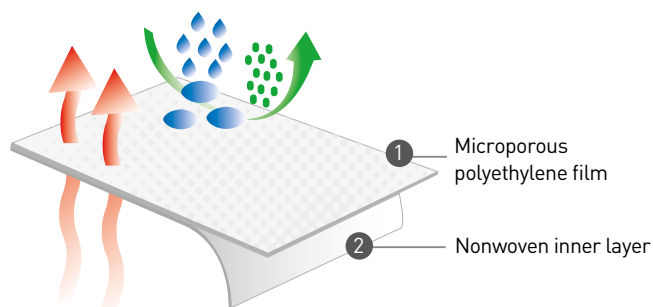
USA: 1-800-800-0444 Canada: 1-800-363-8340

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## 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 vapor transmission rate from inside to outside.

2000 COMFORT 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	$2.4 \times 10^9$
Surface resistance at RH 40% - Back			$2.85 \times 10^9$
Surface resistance at RH 20% - Face			$1.85 \times 10^{11}$
Surface resistance at RH 20% - Back			$3.1 \times 10^{11}$
Whole suit inward leakage **	EN ISO 13982-1	%	5.603
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>	$16.3 \times 10^{-3}$
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 COMFORT 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

1500 PLUS (back panel) Fabric Physical Properties	Test Method	Units	Results*
Tensile strength (MD)	ASTM D5034	lbs	26.3
Tensile strength (CD)			20.8
Tear resistance (MD)	ASTM D5733	lbs	7.2
Tear resistance (CD)			6.5
Burst strength	ASTM D3787	lbs	25
Surface resistance at RH 40% - Face	AATCC 76	Ohms	$2.4 \times 10^8$
Surface resistance at RH 40% - Back			$3.1 \times 10^8$
Surface resistance at RH 20% - Face			$0.9 \times 10^{11}$
Surface resistance at RH 20% - Back			$1.0 \times 10^{11}$
Air permeability	ASTM D737	ft <sup>3</sup> / min / ft <sup>2</sup>	30.7
Water vapor transmission rate	ASTM E96, Method B	g/m <sup>2</sup> / 24hr	1380

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