

**AlphaTec®****2000 STANDARD**

Previously known as: MICROCHEM® by AlphaTec® 2000 STANDARD

**AlphaTec® 2000 provides superior protection and comfort with exceptional liquid and particulate protection. Ideal for a wide range of industrial applications.**

**KEY FEATURES & BENEFITS**

- Excellent liquid penetration resistance and barrier to fine particulates
- Air and water vapor permeable ("breathable") to help reduce the risk of heat stress
- Silicone-free – critical in spray-painting applications
- Low-linting – Reduces the risk of fibre contamination in critical areas
- Latex-free elastic
- Anti-static, tested according to EN 1149-5 & AATCC 76
- Tested to ASTM F1670/1671 for protection from bloodborne pathogens
- Optimized body fit – improves wearer comfort and safety

**RECOMMENDED FOR**

- Cleanroom cleaning and preparing
- Body painting including surface inspection
- Production line support & maintenance
- Cleaning of plant and machines
- Maintenance of plant and machines
- Crime Scene Investigation (CSI)
- Veterinary services

**PRIMARY INDUSTRIES**

Life Sciences | Automotive | Metal Fabrication | Food Processing | Defense

**STANDARDS & CERTIFICATION**

- PPE Category III



TYPE 5-B



TYPE 6-B

EN 14126  
ASTM F1671

DIN 32781



EN 1073-2

EN 1149-5  
AATCC 76

<b>Product material</b>	Microporous polyethylene laminate nonwoven
<b>Material weight</b>	63 gsm / 1.86 oz/yd <sup>2</sup>
<b>Seam Type</b>	Bound seams (B)
<b>Color</b>	White (WH)
<b>Size</b>	S - 5XL (02 - 09)

**SUGGESTED GLOVE OPTION**

- 1 AlphaTec® 37-310
- 2 AlphaTec® 53-001
- 3 AlphaTec® 58-735

Consult your Ansell representative for details.

**MODELS AVAILABLE****MODEL 103**

- Coverall with collar

**STYLE:** W20B103**PART NO. / SKU:**  
WH20-B-92-103-0X\* ☐**SIZES:** S - 5XL (02-09)**PACKAGING:** 25 per case**MODEL 107**

- Coverall with 3-piece hood and attached boots

**STYLE:** W20B107**PART NO. / SKU:**  
WH20-B-92-107-0X\* ☐**SIZES:** S - 5XL (02-09)**PACKAGING:** 25 per case**MODEL 111**

- Coverall with 3-piece hood

**STYLE:** W20B111**PART NO. / SKU:**  
WH20-B-92-111-0X\* ☐**SIZES:** S - 5XL (02-09)**PACKAGING:** 25 per case**MODEL 113**

- Coverall with 3-piece hood & silver reflective tape

**STYLE:** W20B113**PART NO. / SKU:**  
WH20-B-92-113-0X\* ☐**SIZES:** S - 5XL (02-09)**PACKAGING:** 25 per case**MODEL 162**

- Coverall with 3-piece hood & pass-thru device for use with fall arrest equipment

**STYLE:** W20B162**PART NO. / SKU:**  
WH20-B-92-162-0X\* ☐**SIZES:** S - 5XL (02-09)**PACKAGING:** 25 per case

\* 0X - refers to sizes, S (02) - 5XL (09)

**AlphaTec®****2000 - ACCESSORIES****MODEL 209**

■ Lab coat  
**STYLE:** W20B209  
**PART NO. / SKU:** WH20-B-92-209-0X\* ☐  
**SIZES:** S - 5XL (02-09)  
**PACKAGING:** 30 per case

**MODEL 214**

■ Apron  
**STYLE:** W20S214  
**PART NO. / SKU:** WH20-S-92-214-0X\* ☐  
**SIZES:** S - 5XL (02-09)  
**PACKAGING:** 50 per case

**MODEL 219**

■ Jacket and pants set  
**STYLE:** W20B219  
**PART NO. / SKU:** WH20-B-92-219-0X\* ☐  
**SIZES:** S - 5XL (02-09)  
**PACKAGING:** 25 per case

**MODEL 233**

■ Bib apron 28 x 44, 39" tie fastening to waist  
**STYLE:** W20S233  
**PART NO. / SKU:** WH20-S-92-233-0X\* ☐  
**SIZES:** S - 5XL (02-09)  
**PACKAGING:** 100 per case

**MODEL 301**

■ Pants, no pockets  
**STYLE:** W20B301  
**PART NO. / SKU:** WH20-B-92-301-0X\* ☐  
**SIZES:** S - 5XL (02-09)  
**PACKAGING:** 50 per case

**MODEL 406**

■ Overboots  
**STYLE:** W20B406  
**PART NO. / SKU:** WH20-B-92-406-00 ☐  
**SIZES:** 00 (8-12)  
**PACKAGING:** 200 pairs per case

**MODEL 407**

■ Overboots with PVC anti-slip sole  
**STYLE:** W20B407  
**PART NO. / SKU:** WH20-B-92-407-00 ☐  
**SIZES:** 00 (8-12)  
**PACKAGING:** 150 pairs per case

**MODEL 417**

■ Overshoes with PVC anti-slip sole  
**STYLE:** W20B417  
**PART NO. / SKU:** WH20-B-92-417-00/05 ☐  
**SIZES:** 00 (8-12), 05 (12-14)  
**PACKAGING:** 00 - 200 pairs per case, 05 - 250 pairs per case

**MODEL 503**

■ Hood - balaclava style  
**STYLE:** W20B503  
**PART NO. / SKU:** WH20-B-92-503-00 ☐  
**SIZE:** One size  
**PACKAGING:** 300 per case

**MODEL 600**

■ Sleeves - 20" length  
**STYLE:** W20B600  
**PART NO. / SKU:** WH20-B-92-600-00 ☐  
**SIZE:** One size  
**PACKAGING:** 100 pairs per case

\* 0X - refers to sizes, S (02) - 5XL (09)

**AlphaTec®****2000 SOCO - MODEL 128**

Previously known as: MICROCHEM® by AlphaTec® 2000 SOCO

**Developed in collaboration with Greater Manchester (UK) Police forensic Scene of Crime Officers (SOCOs), the AlphaTec® 2000 SOCO suit will provide you with the essential balance of comfort and performance.**

**KEY FEATURES & BENEFITS**

- Ultra low-linting – reduces the risk of crime scene contamination
- Supplied with two self-adhesive pockets – can be positioned anywhere on the garment to secure equipment
- Dual finger loops – to prevent sleeve movement when working above your head
- Latex-free elastic
- Protection from biological agents in the highest performance class according to EN 14126 & ASTM F1671
- Anti-static, tested according to EN 1149-5 & AATCC 76
- Chinstrap

**RECOMMENDED FOR**

- Forensics
- Scene of crime officers (SOCOs)
- Crime scene investigation (CSI)

**PRIMARY INDUSTRIES**

Defense

**STANDARDS & CERTIFICATION**

- PPE Category III



TYPE 5-B



TYPE 6-B

EN 14126  
ASTM F1671EN 1149-5  
AATCC 76

DIN 32781



EN 1073-2

<b>Product material</b>	Microporous polyethylene laminate nonwoven
<b>Material weight</b>	63 gsm / 1.86 oz/yd <sup>2</sup>
<b>Seam type</b>	Bound seams (B)
<b>Color</b>	White (WH)
<b>Size</b>	S - 5XL (02 - 09)
<b>Style</b>	W20B128
<b>Part No. / SKU</b>	WH20-B-92-128-0X*
<b>Packaging</b>	25 per case

\* 0X - refers to sizes, S (02) - 5XL (09)



**SOCO**  
 overboots  
 available  
 separately  
 (page 30)



**AlphaTec®**

**2000 Ts PLUS - MODEL 111**

Previously known as: MICROCHEM® by AlphaTec® 2000 Ts PLUS

**AlphaTec® 2000 Ts PLUS is the product of choice for many pharmaceutical workers around the world.**

#### KEY FEATURES & BENEFITS

- Proven barrier to low concentration liquid chemicals, diluted pesticides, liquid and particulate biological hazards
- Moisture vapor permeable ("breathable") fabric to help reduce the risk of heat stress
- Ultra low-linting – reduces the risk of crime scene contamination
- Latex-free elastic
- Protection from biological agents in the highest performance class according to EN 14126 & ASTM F1671
- Anti-static, tested according to EN 1149-5 & AATCC 76
- Chinstrap

#### RECOMMENDED FOR

- Product inspection
- Loading and hauling
- Fibreglass/resin applications/ceramic fibres
- Body painting including surface inspection
- Cleaning of plant and machines
- Maintaining lab furniture and equipment

#### PRIMARY INDUSTRIES

Life Sciences | Automotive | Metal Fabrication | Food Processing | Chemical

#### STANDARDS & CERTIFICATION

- PPE Category III



TYPE 4-B



TYPE 5-B



TYPE 6-B



EN 14126  
ASTM F1671



DIN 32781



EN 1073-2



EN 1149-5  
AATCC 76

<b>Product material</b>	Microporous polyethylene laminate nonwoven
<b>Material weight</b>	63 gsm / 1.86 oz/yd²
<b>Seam type</b>	Serged/stitched & taped seams (T)
<b>Color</b>	White (WH)
<b>Size</b>	S - 5XL (02 - 09)
<b>Style</b>	W20T111
<b>Part No. / SKU</b>	WH20-T-92-111-0X*
<b>Packaging</b>	25 per case

\* 0X - refers to sizes, S (02) - 5XL (09)





**AlphaTec®****2000 COMFORT**

Previously known as: MICROCHEM® by AlphaTec® 2000 COMFORT

**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.**

**KEY FEATURES & BENEFITS**

- Hood, arms, legs and front torso in AlphaTec® 2000 fabric
- Highly breathable SMS back panel
- Air and water vapor permeable ("breathable") to help reduce the risk of heat stress
- Silicone-free – critical in spray-painting applications
- Latex-free elastic
- Anti-static, tested according to EN 1149-5 & AATCC 76
- Optimized body fit – improves wearer comfort and safety

**RECOMMENDED FOR**

- Cleanroom cleaning and preparing
- Body painting including surface inspection
- Production line support & maintenance
- Cleaning of plant and machines
- Maintenance of plant and machines
- Crime Scene Investigation (CSI)
- Veterinary services

**PRIMARY INDUSTRIES**

Life Sciences | Automotive | Metal Fabrication | Food Processing

**STANDARDS & CERTIFICATION**

- PPE Category III



TYPE 5



TYPE 6



EN 1073-2

EN 1149-5  
AATCC 76

<b>Product material</b>	Microporous polyethylene laminate nonwoven (MPL) (hood, arms and legs) and polypropylene (PP) nonwoven with anti-static treatment (back panel)
<b>Material weight</b>	MPL - 63 gsm / 1.86 oz/yd <sup>2</sup> PP - 48 gsm / 1.48 oz/yd <sup>2</sup>
<b>Seam type</b>	Bound seams (B)
<b>Color</b>	White (WH)
<b>Size</b>	S - 5XL (02 - 09)

**MODELS AVAILABLE****MODEL 129**

- Coverall with 3-piece hood & breathable back panel

**STYLE:** W20B129**PART NO. / SKU:**  
WH20-B-92-129-0X\* ☐**SIZES:** S - 5XL (02-09)**PACKAGING:** 25 per case**MODEL 177**

- Coverall with collar & breathable back panel

**STYLE:** W20B177**PART NO. / SKU:**  
WH20-B-92-177-0X\* ☐**SIZES:** S - 5XL (02-09)**PACKAGING:** 25 per case**SUGGESTED GLOVE OPTION**

- 1 AlphaTec® 37-310
- 2 AlphaTec® 53-001
- 3 AlphaTec® 58-735

Consult your Ansell representative for details.

\* 0X - refers to sizes, S (02) - 5XL (09)

AlphaTec® 2000 fabric 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](http://www.ansell.com)

Fabric Physical Properties	Test Method	Units	Results*
Tensile strength (MD)	ASTM D5034	lbs in <sup>-1</sup>	21.5
Tensile strength (CD)			28.6
Tear resistance (MD)	ASTM D5733	lbs in <sup>-1</sup>	7.1
Tear resistance (CD)			12.0
Burst strength	ASTM D3787	lbs in <sup>-1</sup>	32
Puncture propagation tear resistance	ASTM D2582	N	47.0 MD 27.9 CD
Flame spread	16 CFR §1610	sec	IBE ***
		(class)	1
Seam strength	ASTM D1683	lbf	23.3 (STANDARD)
			18.6 (COMFORT)
Surface resistance at RH 40% - Inner	AATCC 76	Ohms	1.04 x 10 <sup>11</sup>
Surface resistance at RH 40% - Outer			9.10 x 10 <sup>10</sup>
Surface resistance at RH 20% - Inner			1.32 x 10 <sup>11</sup>
Surface resistance at RH 20% - Outer			1.46 x 10 <sup>11</sup>
Whole suit inward leakage **	EN ISO 13982-2	%	<0.128
Barrier Properties	Test Method	Units	Results*
Hydrostatic pressure / water penetration	AATCC 127	cm H <sub>2</sub> O	>127*
	* Limited by test equipment. ISO 811 result >200cm H <sub>2</sub> O		
Comfort Properties	Test Method	Units	Results*
Thermal resistance	ISO 11092	R <sub>ct</sub>	16.0 x 10 <sup>-3</sup>
Water vapor resistance		R <sub>et</sub>	<20
Water vapor transmission rate	ASTM E96, Method B	g/m <sup>2</sup> /24hr	583

\* Unless specified the test data is applicable to the white version only. For test results on other colors please email [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 email the Ansell technical team for information on a specific model at [customerserviceus@ansell.com](mailto:customerserviceus@ansell.com)

\*\*\* Ignites but extinguishes

The following table provides examples of AlphaTec® 2000 resistance to chemical penetration.

Chemical Penetration Test Data				
Chemical	CAS Number	Test Method	Units	Results*
Sulfuric Acid, 30%	7664-93-9	ISO 6530	% pen.	0
Sodium Hydroxide, 10%	1310-73-2			0
O-Xylene	95-47-6			0
Butan-1-ol	71-36-3			0
Sodium Hypochlorite, 5%	7681-52-9	ASTM F903-2018 Procedure C (penetration under pressure)	min	>60
Hexamethylene diisocyanate commercial mixture (HDI)	822-06-0			>60
4,4 -methylenediphenyl diisocyanate commercial mixture (MDI)	101-68-8			>60
Sodium Hydroxide, 30%	1310-73-2	ISO 13994: 2005 Procedure D	kPa	>14
Sulfuric Acid, 96%	7664-93-9			>14
Methanol	67-56-1			10.5

For complete up to the minute chemical permeation test data visit [www.ansellguardianpartner.com](http://www.ansellguardianpartner.com)

AlphaTec® 2000 test data for resistance to penetration of infective agents and blood borne pathogens is detailed in the table below. For advice on the selection of protective apparel see page 9.

EN 14126 Fabric Barrier to Infective Agents	Test Method	Result	EN Class
Resistance to penetration by blood borne pathogens	ISO 16604	Pass to 20 kPa	6 of 6
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)	6 of 6
Resistance to biologically contaminated aerosols	ISO/DIS 22611	No penetration	3 of 3
Resistance to dry microbial penetration	ISO 22612	No penetration	3 of 3