AlphaTec® 2500 STANDARD

MODELS 111 & 122

AlphaTec® 2500 is a unique material offering exceptional mechanical strength, liquid and particulate protection.

DESCRIPTION

- **Protection** – Achieves the highest classifications for protection from biological agents in accordance with EN 14126:2003 and ASTM F 1671 for penetration of blood, body fluids and blood-borne pathogens
- **Comfort** – Moisture vapour permeable ("breathable") to help reduce the risk of heat stress
- **Anti-static** – Tested according to EN 1149-5
- **Ultra-low-linting** – Reduced risk of contamination in critical areas
- Elasticated hood, wrist, waist and ankles (latex free)
- Finger loops
- Red single zip with resealable storm flap

IDEAL INDUSTRIES AND APPLICATIONS

- Virally contaminated areas (including avian influenza)
- Biological protection
- Emergency medical response
- Medical research
- Chemical and pharmaceutical industries
- Low-pressure industrial cleaning
- Industrial paint spraying
- Nuclear industry

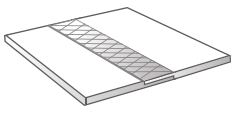
PERFORMANCE RATINGS

SIZES

S-5XL

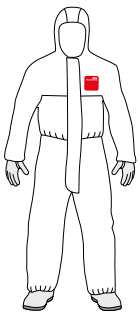
COLOURS

ULTRASONICALLY WELDED SEAMS



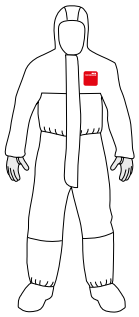
FEATURES

Attached boot with ankle ties and anti-slip soles (Model 122)



Model 111

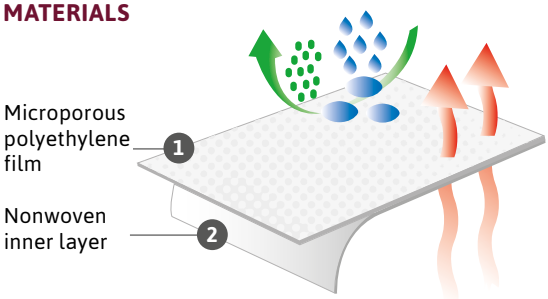
- 3-piece hood



Model 122

- Attached boot with ankle ties and anti-slip soles

MATERIALS



AlphaTec® 2500 PLUS

MODELS 111 & 122

AlphaTec® 2500 PLUS offers low concentration liquid chemical repellence, particle protection and Type 3 'liquid tight' protection with breathability.

DESCRIPTION

- **Protection** – Achieves the highest classifications for protection from biological agents in accordance with EN 14126:2003 and ASTM F 1671 for penetration of blood, body fluids and blood-borne pathogens
- **Comfort** – Moisture vapour permeable ("breathable") to help reduce the risk of heat stress
- **Anti-static** – Tested according to EN 1149-5
- **Ultra-low-linting** – Reduced risk of contamination in critical areas
- Elasticated hood, wrist, waist and ankles (latex free)
- Finger loops
- White 2-way zip with resealable storm flap

IDEAL INDUSTRIES AND APPLICATIONS

- Virally contaminated areas (including avian influenza)
- Biological protection
- Emergency medical response
- Medical research
- Chemical and pharmaceutical industries
- Low-pressure industrial cleaning
- Industrial paint spraying
- Nuclear industry

PERFORMANCE RATINGS

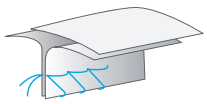
TYPE 3-B | TYPE 5-B | TYPE 6-B | EN 14126 | EN 1073-2 | EN 1149-5

SIZES

S-5XL

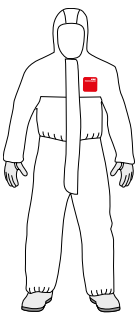
COLOURS

STITCHED & TAPED SEAMS



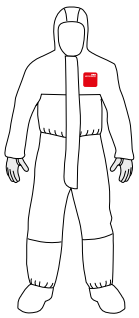
FEATURES

Attached boot with ankle ties and anti-slip soles (Model 122)



Model 111

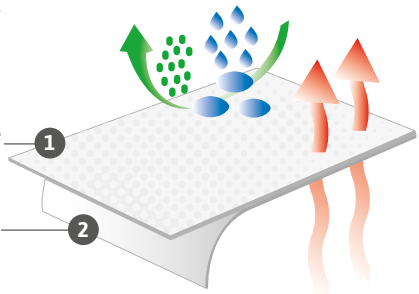
- 3-piece hood



Model 122

- Attached boot with ankle ties and anti-slip soles

MATERIALS



MODEL 203 LAB COAT

- Collar
- Stud front fastening
- Left breast pocket
- Lower right pocket
- Bound seams

SIZES S-3XL

COLOURS ☐

MODEL 406 OVERBOOTS

- Elastic to top of boot
- Tie fastening

SIZES One size (fits size 42-46)

COLOURS ☐

MODEL 503 CAPE HOOD

- Balaclava-style
- Elasticated face opening
- Bound seams

SIZES One size

COLOURS ☐

MODEL 213 APRON

- Tie fastening to waist
- 100 cm long tie fastening

SIZES One size

COLOURS ☐

MODEL 407 OVERBOOTS - ESD

- Elasticated opening
- Anti-slip sole
- Adjustable shoe tie
- Bound seams
- ESD PVC Sole

SIZES 42-46

COLOURS ☐

MODEL 507 CAPE HOOD

- Balaclava-style cape hood covering part of shoulders
- Hook and loop fastening to front
- Bound seams

SIZES One size

COLOURS ☐

MODEL 400 OVERSHOES

- Elasticated opening
- Bound seams

SIZES One size (fits size 42-46)

COLOURS ☐

MODEL 409 SOCO OVERBOOTS

- Tie fastening
- Blue binding to seams
- Reinforced Surestep non-slip soles
- Adjustable shoe tie

SIZES One size (fits size 42-46)

COLOURS ☐

MODEL 600 OVERSLEEVES

- Elasticated at both ends
- Length 20”
- Bound seams

SIZES One size

COLOURS ☐

AlphaTec® 2500

TECHNICAL DATA

AlphaTec® 2500 is extensively tested in accordance with statutory requirements, including physical performance attributes and barrier to hazardous substances. The following tables outline the results obtained in independent laboratories according to European test methods.

Test Method	Result	EN Class (EN 14325)
EN 530 Abrasion	>100 Cycles	2 of 6
EN ISO 7854 Flex Cracking	>100,000 Cycles	6 of 6
EN ISO 9073-4 Tear Resistance (Machine Direction)	>20 N	2 of 6
EN ISO 9073-4 Tear Resistance (Cross Direction)	>20 N	
EN ISO 13934-1 Tensile Strength (Machine Direction)	>100 N	2 of 6
EN ISO 13934-1 Tensile Strength (Cross Direction)	>100 N	
EN 863 Puncture Resistance	>100 N	2 of 6
EN ISO 13938-1 Burst Resistance	>80 kPa	2 of 6
EN 1149-5 Electrostatic Properties (Surface Resistance)	<2.5 x 10^9 Ω	-
ISO 13935-2 Seam Strength	>125 N	4 of 6
Comfort Test Method	**Result**	
ISO 5636-5 Air Permeability: Gurley Method (s 100 cm^{-2})	>500	
EN 31092/ISO 11092 Water Vapour Resistance (R_{et}) (m^2·Pa/W)	23	
EN 31092/ISO 11092 Thermal Resistance (R_{ct}) (m^2·K/W)	0.019	
Water Vapour Permeability Index (WVPI)	0.050	
Clothing insulation (clo) value	0.125	

AlphaTec® 2500 has been tested against numerous chemicals. For further information on permeation testing and a more extensive list of chemicals see page 83.

EN ISO 6529 Chemical Permeation Test Results			
Chemical Name	**CAS Number**	**BT at 1.0µg/cm^2/min (min)**	**EN Class (EN 14325)**
Sodium Hydroxide (10% w/w)	1310-73-2	>480	6 of 6
Sulphuric Acid (96% w/w)	7664-93-9	>480	6 of 6

The following table sets out AlphaTec® 2500 performance for resistance to chemical penetration in accordance with EN ISO 6530. For further information on penetration testing see page 85.

Fabric Repellence & Penetration - Resistance to Liquid Chemicals	Result (%)	EN Class
Repellence of Liquids - 30% Sulphuric Acid	>95	3 of 3
Repellence of Liquids - 10% Sodium Hydroxide	>95	3 of 3
Repellence of Liquids - n-heptane (undiluted)	>80	1 of 3
Repellence of Liquids - Isopropanol	>90	2 of 3
Resistance to penetration by liquids – 30% Sulphuric Acid	<1	3 of 3
Resistance to penetration by liquids – 10% Sodium Hydroxide	<1	3 of 3
Resistance to penetration by liquids – n-heptane (undiluted)	<1	3 of 3
Resistance to penetration by liquids – Isopropanol	<1	3 of 3

AlphaTec® 2500 when tested in accordance with EN 14126:2003 demonstrates an excellent barrier to infective agents. The specific test results are detailed in the table below and for further information on this European Norm see page 5.

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	Class 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)	Class 6 of 6
Resistance to biologically contaminated aerosols	ISO/DIS 22611	No penetration	Class 3 of 3
Resistance to dry microbial penetration	ISO 22612	No penetration	Class 3 of 3

AlphaTec® 2500 products have been extensively tested according to European and International requirements, including ASTM, for both physical and barrier performance. More details can be found on our website **www.ansell.com**