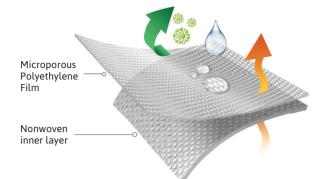
AlphaTec[®]

1800 STANDARD FABRIC - TECHNICAL DATA



Product name	AlphaTec [®] 1800 STANDARD
Product material	Microporous polyethylene laminate nonwoven
Color	White
Material weight	53 gsm / 1.56 oz/yd²

Physical Properties			
Test Method		Units	Results
Tensile strength (MD)		Un 2 - 1	17.7
Tensile strength (CD)	ASTM D5034	lbs in⁻¹	24.4
Tear resistance (MD)		lbs in ⁻¹	7.2
Tear resistance (CD)	ASTM D5733		12.4
Burst strength	ASTM D3787	lbs in-1	21
Surface resistance at RH 40% - Inner		Ohms	3.43 x 10 ⁹
Surface resistance at RH 40% - Outer			8.34 x 10 ⁹
Surface resistance at RH 20% - Inner	AATCC 76		3.05 x 10 ¹⁰
Surface resistance at RH 20% - Outer			4.25 x 10 ¹⁰
Flame spread	16 CFR Part 1610	sec	17.3 - Class 1

Additional Testing			
Test Method		Units	Results
Anti-static Properties (EN 1149-5)	EN 1149-3 (Charge Decay)	t ₅₀ <4 s	Pass
Whole suit particle inward leakage*	ISO 13982-2	% TIL	3.96%
	AATCC 127	cm H ₂ 0	>100
Hydrostatic Head (Water Pressure Test)	Limited by test equipment. ISO 811 result >100cm H_2O		

Comfort Testing			
Test Method		Units	Results
Moisture vapor transmission	ASTM E96 Method B	g/m²/24 hr	709
Air permeability	ASTM D737	ft³ ft-² min-1	<0.13



Chemical Penetration under Pressure Performance			
Test Chemical	Test Method	Unit	Results
Hexamethylene diisocyanate commercial mixture (HDI) **	ASTM F903		>60
4,4 -methylenediphenyl diisocyanate commercial mixture (MDI) ***	Procedure C (penetration under pressure)	min	>60

Fabric Repellence & Penetration to Liquid Chemicals - EN 14325:2004					
Test Chemical	Test Method	Penetration Result (%)	EN Class	Repellency Result (%)	EN Class
Sulfuric Acid (30% w/w)		<1	3 of 3	>95	3 of 3
Sodium Hydroxide (10% w/w)	EN ISO 6530	<1	3 of 3	>95	3 of 3

Whole Suit Testing	
Test Method	
EN ISO 13982-1:2004+A1:2010	Type 5 : Particle Test
EN 13034:2005+A1:2009	Type 6 : Reduced Spray Test

* 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**

** Consisting of hexamethylene diisocyanate Polymer, 57.23%, CAS 28182-81-2 n-Butyl Acetate, 42.66%, CAS 123-86-4 Hexamethylene Diisocyanate (max.), 0.11%, CAS 822-06-0 (Tested on 11/30/2020). This mixture is representative of HDI's.

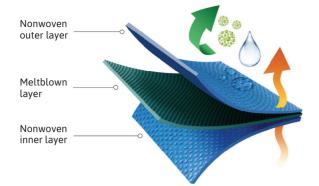
*** Consisting of 4,4-methylenediphenyl diisocyanate, 25-50%, CAS 101-69-8; Isocyanic acid, polymethylenepolyphenylene ester polymer, 10- 25%, CAS 67815-87-6, o-(p-isocyanatobenzyl)phenyl isocyanate, 10-15%, CAS 5873-54-1, 1,2-Propanediol polymer, 10-25%, CAS 72088-97-2 (Tested on 12/11-2020). This mixture is representative of MDI's.

Safety Note: All chemical tests and breakthrough times given relate to laboratory tests on fabrics only. Seams and closures may have lower breakthrough times, particularly when worn or damaged. It is the user's responsibility to select an appropriate garment, gloves, boots and other equipment for the particular use. The user shall be responsible for determining how long the garment can be worn for the particular use and whether it can be suitably cleaned for re-use. Ansell Limited does not give any warranties or make any representations about its garments other than those contained in the official literature supplied by Ansell Limited with each garment. Ansell 2024. All rights Reserved.



AlphaTec[®]

1500 PLUS FABRIC - TECHNICAL DATA



Product name	AlphaTec [®] 1500 PLUS
Product material	SMS nonwoven with anti-static treatment
Color	White
Material weight	White 48 gsm / 1.42 oz/yd ²

Physical Properties			
Test Method		Units	Results**
Tensile strength (MD)		line in 1	41.0
Tensile strength (CD)	ASTM D5034	lbs in ⁻¹	22.9
Tear resistance (MD)		line in 1	17.3
Tear resistance (CD)	ASTM D5733	lbs in ⁻¹	10.1
Burst strength	ASTM D3787	lbs in-1	23
Flame spread	16 CFR Part 61610	sec	IBE* - Class 1
Whole suit inward leakage***	EN ISO 13982-2	% TIL	2.2
Seam strength	ASTM D1683	lbf	22.7

Comfort Testing			
Test Method		Units	Results**
Air permeability	ASTM D737	ft³/min/ft²	30.7
Moisture vapor transmission	ASTM E96, Method B	g/m²/24 hr	1380

Additional Testing			
Test Method		Units	Results**
Anti-static Properties (EN 1149-5)	EN 1149-3 (Charge Decay)	t ₅₀ <4 s	Pass
	AATCC 127	cm H ₂ 0	>50
Hydrostatic Head (Water Pressure Test)	Limited by test equipment. ISO 811 result >50cm H_2O		

* IBE - ignites but extinguishes

** Unless specified the test data is applicable to the white version only. For test results on other colors please email 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**



Whole Suit Testing		
Test Method		
EN ISO 13982-1:2004+A1:2010	Type 5 : Particle Test	
EN 13034:2005+A1:2009	Type 6: Reduced Spray Test	
EN 1073-2:2002	Radioactive Particulates (Class 1 of 6)****	

**** Coverall tested to EN 1073-2 for barrier to radioactive particles, with the exception of Clause 4.2: Puncture resistance achieves Class 1 versus the requirement of Class 2. Resistance to ignition is not tested as product already carries flammability warning. Note: Does not protect against ionizing radiation.

Safety Note: All chemical tests and breakthrough times given relate to laboratory tests on fabrics only. Seams and closures may have lower breakthrough times, particularly when worn or damaged. It is the user's responsibility to select an appropriate garment, gloves, boots and other equipment for the particular use. The user shall be responsible for determining how long the garment can be worn for the particular use and whether it can be suitably cleaned for re-use. Ansell Limited does not give any warranties or make any representations about its garments other than those contained in the official literature supplied by Ansell Limited with each garment. Ansell 2024. All rights Reserved.

