



Product name	AlphaTec® 1500
Product material	SMS nonwoven
Color	White
Material weight	48 gsm / 1.42 oz/yd ²

Physical Properties

Test Method		Units	Results**
Tensile strength (MD)	ASTM D5034	lbs in ⁻¹	41.0
Tensile strength (CD)			22.9
Tear resistance (MD)	ASTM D5733	lbs in ⁻¹	17.3
Tear resistance (CD)			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	ft ³ /min/ft ²	43.8
Moisture vapor transmission	ASTM E96, Method B	g/m ² /24 hr	1399

Additional Testing

Test Method		Units	Results**
Fabric particle filtration efficiency (>3 µm particle size)	KAKEN	% filtered	100
Hydrostatic Head (Water Pressure Test)	AATCC 127	cm H ₂ O	>40
	Limited by test equipment. ISO 811 result >40cm H ₂ O		

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.

Fabric Filtration Efficiency (KAKEN test method)

Particle Size	%
0.3 - 0.5 µm	98.7
0.5 - 1.0 µm	99.2
1.0 - 3.0 µm	99.7
3.0 - 5.0 µm	100
>5.0 µm	100

* 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

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.