



Product name	AlphaTec® 1500 PLUS FR
Product material	SMMS fabric with fire retardant and anti-static treatment
Color	Navy blue
Material weight	54 gsm / 1.59 oz/yd ²

Physical Properties			
Test Method		Units	Results
Tensile strength (MD)	ASTM D5034	lbs in ⁻¹	35.7
Tensile strength (CD)			27.9
Tear resistance (MD)	ASTM D5733	lbs in ⁻¹	12.1
Tear resistance (CD)			9.7
Burst strength	ASTM D3787	lbs in ⁻¹	30
Puncture propagation tear resistance	ASTM D2582	N	MD - 21.6
			CD - 24.9
Air permeability	ASTM D737	ft ³ ft ⁻² min ⁻¹	>40
Moisture vapor transmission	ASTM E96, Method B	g/m ² /24hr	>1,000
Flame spread	16 CFR Part 61610	sec	DNI* - Class 1
Surface resistance at RH 40% - Inner	AATCC 76	Ohms	<5 x 10 ¹⁰
Surface resistance at RH 40% - Outer			
Surface resistance at RH 20% - Inner			
Surface resistance at RH 20% - Outer			

Comfort Testing			
Test Method		Units	Results
Hydrostatic Head (Water Pressure Test)	AATCC 127	cm H ₂ O	17.6

Additional Testing			
Test Method		Units	Results
Vertical flammability	NFPA 701:2010	-	Pass
Flame spread	ISO 15025 Procedure A	-	Index 1
Vertical flame resistance of textiles	ASTM D6413	Sec	No afterflame <1 s afterglow

* DNI - does not ignite

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)**

** Overall 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. 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.