



Product name	AlphaTec® FR
Product material	Flame-retardant treated Sontara/wood pulp/polyester
Colour available	Blue
Material weight	102gsm

Physical Properties - EN 14325:2004

Test Method		Result	EN Class
Abrasion Resistance	EN 530	>1,500 Cycles	5 of 6
Flex Cracking	EN ISO 7854	>100,000 Cycles	6 of 6
Tear resistance (MD)	EN ISO 9073-4	>60 N	2 of 6
Tear resistance (CD)		>30 N	
Tensile strength (MD)	EN ISO 13934-1	>100 N	2 of 6
Tensile strength (CD)		>60 N	
Puncture resistance	EN 863	>10 N	2 of 6
Seam Strength	EN ISO 13935-2	>125 N	4 of 6

Additional Testing

Test Method		Result	EN Class
Anti-static Properties (EN 1149-5)	EN 1149-3 (Charge Decay)	$t_{50} < 4$ s	Pass
Resistance to Ignition	EN 13274-4	Pass	
Limited Flame Spread (EN ISO 14116)	EN ISO 15025	Index 1	

Fabric Repellence & Penetration to Liquid Chemicals - EN 14325:2004

Fabric Repellence of Liquids

Test Chemical	Test Method	Result %	EN Class
Sulphuric Acid (30% w/w)	EN ISO 6530	>95	3 of 3
Sodium Hydroxide (10% w/w)		>95	3 of 3

Fabric Penetration Resistance of Liquids

Test Chemical	Test Method	Result %	EN Class
Sulphuric Acid (30% w/w)	EN ISO 6530	<1	3 of 3
Sodium Hydroxide (10% w/w)		<1	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
EN 1073-2:2002	Radioactive Particulates (Class 1 of 6)**

* 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 2023. All rights Reserved.