



<b>Product name</b>	AlphaTec® 4000 CFR
<b>Product material</b>	Polyolefin-based core barrier laminate with FR nonwoven inner & FR outer barrier film
<b>Color</b>	Orange
<b>Material weight</b>	215 gsm / 6.34 oz/yd <sup>2</sup>



### Physical Properties

Test Method		Units	Results
Tensile strength (MD)	ASTM D5034	lbs in <sup>-1</sup>	59.2
Tensile strength (CD)			46.4
Tear Resistance (MD)	ASTM D5733	lbs in <sup>-1</sup>	19.5
Tear Resistance (CD)			13.1
Puncture proagation tear resistance (MD)	ASTM D2582-16	N	92.6
Puncture proagation tear resistance (CD)			57.7
Burst strength	ASTM D3787-16	lbs in <sup>-1</sup>	49
Hydrostatic Pressure (Water Resistance)	AATCC 127 Method A	cm (height)	>270
Surface resistance at RH 40% - Inner	AATCC 76	Ohms	4.03 x 10 <sup>10</sup>
Surface resistance at RH 40% - Outer			3.35 x 10 <sup>10</sup>
Surface resistance at RH 20% - Inner			1.16 x 10 <sup>11</sup>
Surface resistance at RH 20% - Outer			7.97 x 10 <sup>10</sup>

### Chemical Permeation Performance - EN 14325:2004

#### Fabric Repellence of Liquids

Test Chemical	CAS No.	Test Method	BT <sub>1.0</sub> (mins)	EN Class
Sulfuric Acid (96%)	7664-93-9	ISO 6529	>480	6 of 6
Toluene	108-88-3		>480	6 of 6

### Additional Testing

Test Method		Units	Results
Anti-static Properties (EN 1149-5)	EN 1149-3 (Charge Decay)	t <sub>50</sub> <4 s	Pass
16 CFR Part 1610	Flammability of Clothing Textiles	-	DNI* - Class 1
Vertical flame resistance of textiles	ASTM D6413	Sec	<3 afterflame. No afterglow
Flame Resistance	ASTM F1358	Sec	No afterflame 0.5 afterglow

\* Does not ignite

## Fabric Barrier to Infective Agents - EN 14126

Test Method		Result	EN Class
Resistance to penetration by blood borne pathogens	ISO 16604 / ASTM F1671	Pass to 20 kPa	6 of 6
Resistance to wet bacterial penetration (mechanical contact)	ISO 22610	No penetration (up to 75 min)	6 of 6
Resistance to biologically contaminated aerosols	ISO/DIS 22611	No penetration	3 of 3
Resistance to dry microbial penetration	ISO 22612	No penetration	3 of 3

## Whole Suit Testing

Test Method	
EN 14605:2005+A1:2009	Type 3: Jet Test
EN 14605:2005+A1:2009	Type 4: Spray Test
EN ISO 13982-1:2004+A1:2010	Type 5 : Particle Test
EN 1073-2:2002	Radioactive Particulates (Class 1 of 6)**

\*\* Note: Does not protect against ionizing radiation. Metallic components can be a source of static discharge. Both zippers & flaps must be securely and completely closed to ensure the inner metallic zipper component of the inner zipper are never exposed in use.

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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.