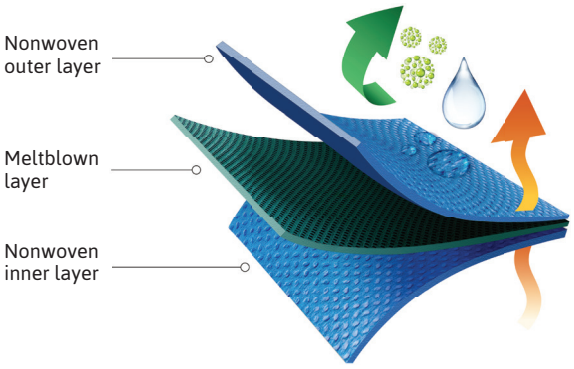
AlphaTec®

1500 STANDARD FABRIC - TECHNICAL DATA



Product name	AlphaTec® 1500 STANDARD
Product material	SMS nonwoven
Colours available	White, Navy, Red
Material weight	White 48gsm, Navy, Red 50gsm

Physical Properties - EN 14325:2004

Test Method		Result (White fabric)	EN Class (white fabric)	Result (Navy fabric)	EN Class (Navy fabric)	Result (Red fabric)	EN Class (Red fabric)
Abrasion	EN 530	>10 Cycles	1 of 6	>10 Cycles	1 of 6	>10 Cycles	1 of 6
Flex cracking	EN ISO 7854	>15,000 Cycles	4 of 6	>15,000 Cycles	4 of 6	>5,000 Cycles	3 of 6
Tear resistance (MD)	EN ISO 9073-4	>60 N	2 of 6	>60 N	2 of 6	>60 N	2 of 6
Tear resistance (CD)		>20 N		>30 N		>30 N	
Tensile strength (MD)	EN ISO 13934-1	>100 N	2 of 6	>100 N	1 of 6	>100 N	1 of 6
Tensile strength (CD)		>60 N		>30 N		>30 N	
Puncture resistance	EN 863	>5 N	1 of 6	>5 N	1 of 6	>5 N	1 of 6
Seam Strength	EN ISO 13935-2	>75 N	3 of 6	>75 N	3 of 6	>75 N	3 of 6

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

Fabric Repellence of Liquids

Test Chemical	Test Method	Result (White fabric)	EN Class (white fabric)	Result (Navy fabric)	EN Class (Navy fabric)	Result (Red fabric)	EN Class (Red fabric)
Sulphuric Acid (30% w/w)	EN ISO 6530	>90	2 of 3	>90	2 of 3	>90	2 of 3
Sodium Hydroxide (10% w/w)		>95	3 of 3	>95	3 of 3	>95	3 of 3

Fabric Penetration Resistance of Liquids

Sulphuric Acid (30% w/w)	EN ISO 6530	<1	3 of 3	<1	3 of 3	<1	3 of 3
Sodium Hydroxide (10% w/w)		<1	3 of 3	<1	3 of 3	<1	3 of 3

Comfort Testing

Test Method		Result (White fabric)	Units	Result (Navy fabric)	Units	Result (Red fabric)	Units
Air Permeability: Gurley Method	ISO 5636-5	1.27	s 100 cm^{-2}	1.27	s 100 cm^{-2}	1.27	s 100 cm^{-2}
Water Vapour Resistance (R_{et})	EN 31092/ISO 11092	1.20	m^2·Pa/W	1.30	m^2·Pa/W	1.39	m^2·Pa/W
Thermal Resistance (R_{ct})	EN 31092/ISO 11092	0.015	m^2·K/W	0.018	m^2·K/W	0.017	m^2·K/W
Water Vapour Permeability Index (WVPI)		0.765	-	0.808	-	0.738	-
Clothing Insultation (clo) value		0.099	-	0.113	-	0.110	-

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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

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