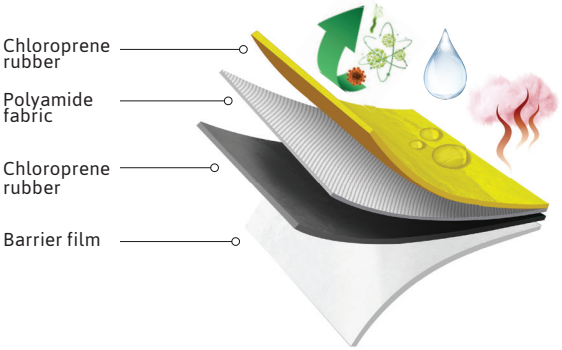
AlphaTec®

VPS FABRIC - TECHNICAL DATA



Product name	AlphaTec® VPS
Product material	Polyamide (nylon) fabric coated on outside with chloroprene rubber and on inside laminated to a multi-layer barrier film
Colours available	Standard: Yellow Option: Black (MOQ may apply)
Material weight (nominal)	680 g/m²

Physical Properties - EN 943-1:2015, EN 943-2:2002, EN 14325:2018

Property	Test Method	Result	EN Class
Abrasion	EN 530	>2 000 Cycles	6 of 6
Flex cracking	EN ISO 7854:B	>50 000 Cycles	6 of 6
Flex cracking @ -30 °c		>2 000 Cycles	5 of 6
Tear resistance	EN ISO 9073-4	>40 N	3 of 6
Tensile strength	EN ISO 13934-1	>1 000 N	6 of 6
Puncture resistance	EN 863	>50 N	3 of 6
Resistance to flame	EN 13274-4, method 3	5 sec	3 of 3
Seam Strength	EN ISO 13935-2	>500 N	6 of 6

Additional Testing

Property	Test Method	Result	EN Class
Limited flame spread (EN ISO 14116)	EN ISO 15025 (Proc A)	Pass	1 of 3

Chemical Permeation Performance - EN 943-2:2002, EN 14325:2004

Test Chemical	CAS No.	$BT_{1.0}$ (mins)	EN Class	Test Chemical	CAS No.	$BT_{1.0}$ (mins)	EN Class
Acetone	67-64-1	>480	6 of 6	Heptane	142-82-5	>480	6 of 6
Acetonitrile	75-05-8	>480	6 of 6	Hexane	110-54-3	>480	6 of 6
Anhydrous Ammonia (gas)	7664-41-7	>480	6 of 6	Hydrogen chloride (gas)	7647-01-0	>480	6 of 6
Carbon disulfide	75-15-0	>480	6 of 6	Methanol	67-56-1	>480	6 of 6
Chlorine (gas)	7782-50-5	>480	6 of 6	Sodium hydroxide (40%)	1310-73-2	>480	6 of 6
Dichloromethane	75-09-2	>480	6 of 6	Sulphuric Acid (96%)	7664-93-9	>480	6 of 6
Diethylamine	109-89-7	>480	6 of 6	Tetrahydrofuran	109-99-9	>480	6 of 6
Ethyl acetate	141-78-6	>480	6 of 6	Toluene	108-88-3	>480	6 of 6

Tests performed according to EN 374-3 or ISO 6529, breakthrough criterion 1 µg/cm²/min, test duration 8 hours.

Barrier to Infective Agents - EN 14126:2003

Test Method		Result	EN Class
Resistance to penetration by synthetic blood	ISO 16603	Pass	6 of 6
Resistance to penetration by blood borne pathogens	ISO 16604	Pass	6 of 6
Resistance to wet bacterial penetration (mechanical contact)	EN ISO 22610	No penetration	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

AnsellGUARDIAN®

Visit: www.ansellguardianchemical.com for online chemical resistance database

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.

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