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AnsellGUARDIAN® Chemical Report

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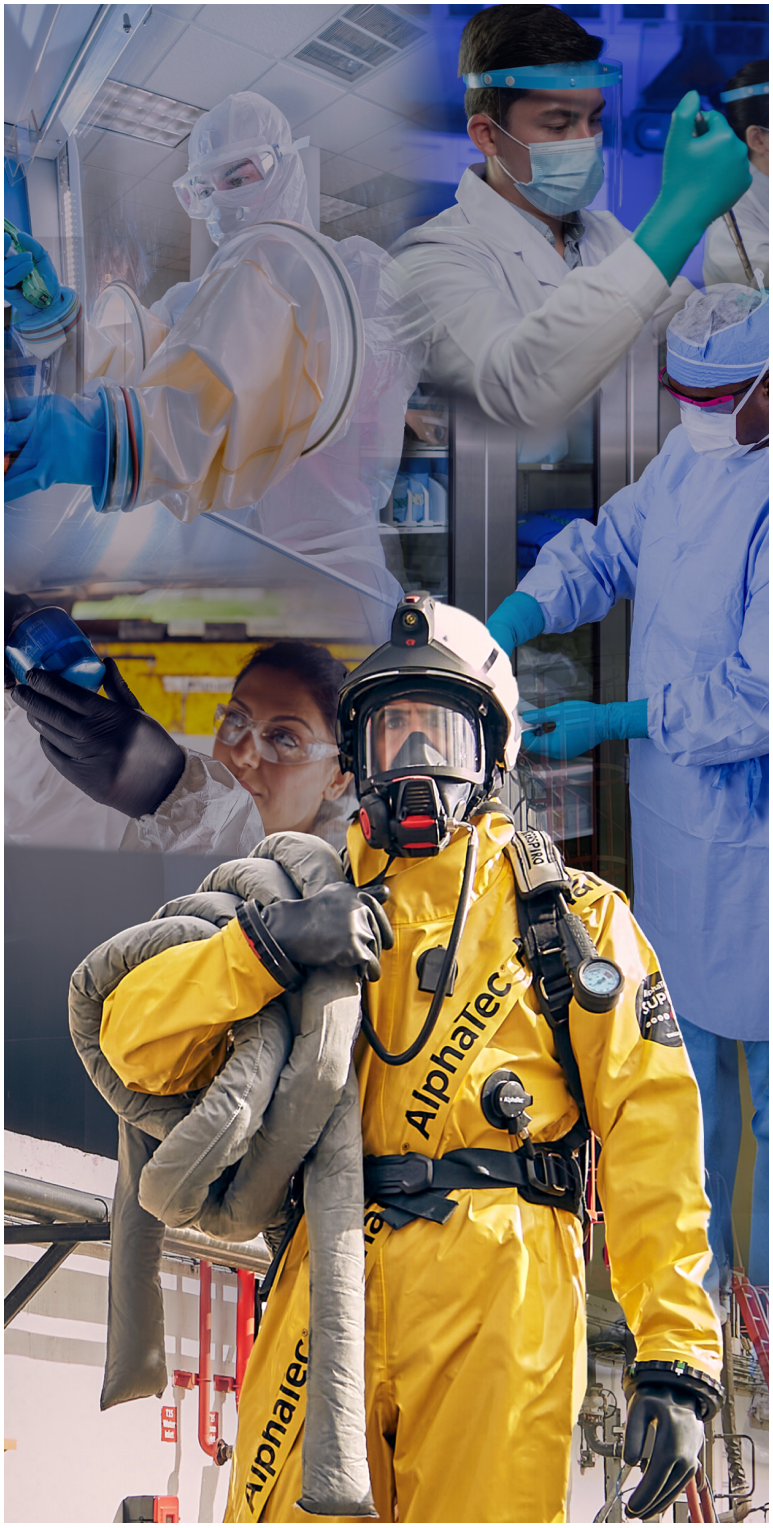

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Disclaimer

In this report, you will find information related to the barrier performance of certain personal protective equipment (PPE) against the chemicals you selected. This information is intended to enable the Health and Safety professional at your organization make more informed decisions about the Ansell PPE that may offer the greatest protection in the intended circumstances and assist with carrying out a risk assessment for your organization.

We wish to highlight that permeation times do not equate to safe wear time. Safe wear time may vary depending on whether the PPE is donned correctly, the surrounding temperature, the chemicals' toxicity, and other factors. Permeation information offered here is limited to the main protective material. Permeation times may vary around seams, zips, visors or any other joins or components of the PPE. It is the responsibility of your organization's Health and Safety professional to undertake a risk assessment before choosing the appropriate PPE for the task at hand. If you want to discuss any aspect in detail, please contact us.

Estimations of the barrier properties of PPE are based on currently available data and extrapolations from laboratory test results and information regarding the chemicals' composition. Synergistic effects of mixing chemicals have not been accounted for. Estimations are subject to change if new testing is carried out or new information is available providing better grounds for extrapolations. For these reasons, any information in this report is provided for informational purposes only and Ansell fully disclaims any liability including warranties related to any statement contained herein.

Legend for Hand Protection

Permeation Breakthrough Times		
	<10	Not Recommended
	10-30	Splash Protection
	30-60	Splash Protection
	60-120	Medium Protection
	120-240	Medium Protection
	240-480	Good Protection
	>480	Good Protection

Permeation breakthrough time is the time (in minutes) for the chemical in question to be permeating through the material at a rate of 1.0 µg /cm^2/min (as per EN ISO 374) or 0.1 µg /cm^2/min (as per ASTM F739).

PS = Physical State: A = Aerosol, G = Gas, L = Liquid, P = Paste, S = Solid

Product Group : 15-554
Brand : AlphaTec®
Material : PVA
Thickness (mm) : N.A.

The permeation breakthrough times present in this chart were evaluated according to the EN ISO 374 and ASTM F739 standard. Colored cells with numbers and symbol (C) correspond to experimentally determined data generated by an accredited laboratory.

CAS	Chemical Name	%	PS	EN ISO 374	ASTM F739
687-47-8	(−)-Ethyl L-lactate	100.0	L		125' C
138495-42-8	1,1,1,2,3,4,4,5,5,5-Decafluoropentane	100.0	L		387' C
76-13-1	1,1,2-Trichloro-1,2,2-trifluoroethane	100.0	L		> 360' C
107-06-2	1,2-Dichloroethane	100.0	L		> 360' C
106-94-5	1-Bromopropane	100.0	L		> 480' C
108-65-6	1-Methoxy-2-Propylacetate	100.0	L		> 360' C
108-03-2	1-Nitropropane	100.0	L		> 480' C
71-41-0	1-Pentanol	100.0	L		180' C
540-84-1	2,2,4-Trimethylpentane	100.0	L		> 480' C
111-76-2	2-Butoxyethanol	100.0	L		120' C
611-19-8	2-Chlorobenzyl Chloride	100.0	L		> 480' C
95-49-8	2-Chlorotoluene	100.0	L	> 480' C	
110-80-5	2-Ethoxyethanol	100.0	L	68' C	49' C
110-43-0	2-Heptanone	100.0	L		> 480' C
79-46-9	2-Nitropropane	100.0	L		> 360' C
107-85-7	3-Methylbutylamin	100.0	L	> 480' C	
67-64-1	Acetone	100.0	L	101' C	
75-05-8	Acetonitrile	100.0	L	330' C	150' C
107-13-1	Acrylonitrile	100.0	L	> 480' C	> 480' C

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90-13-1	alpha-Chloronaphthalene	100.0	L		> 360' C
7664-41-7	Ammonia, gas	100.0	G	11' C	10' C
628-63-7	Amyl acetate	100.0	L		> 360' C
62-53-3	Aniline	100.0	L	> 480' C	> 360' C
100-66-3	Anisole	100.0	L	> 480' C	> 480' C
100-52-7	Benzaldehyde	100.0	L		> 360' C
71-43-2	Benzene	100.0	L		> 360' C
98-07-7	Benzotrichloride	100.0	L		> 360' C
112-34-5	Butyldiglycol	100.0	L		> 480' C
75-15-0	Carbon disulfide	100.0	L	> 480' C	> 360' C
56-23-5	Carbon tetrachloride	100.0	L		360' C
108-90-7	Chlorobenzene	100.0	L		> 360' C
67-66-3	Chloroform	100.0	L		> 360' C
502-42-1	Cycloheptanone	100.0	L		> 480' C
108-93-0	Cyclohexanol	100.0	L		> 360' C
108-94-1	Cyclohexanone	100.0	L		> 480' C
117-81-7	Di-2-(ethylhexyl)phtalate	100.0	L		30' C
123-42-2	Diacetone Alcohol	100.0	L	477' C	410' C
74-95-3	Dibromomethane	100.0	L		> 480' C

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CAS	Chemical Name	%	PS	EN ISO 374	ASTM F739
84-74-2	Dibutyl phthalate	100.0	L		> 360' C
111-92-2	Dibutylamine	100.0	L	> 480' C	460' C
75-09-2	Dichloromethane	100.0	L	> 480' C	> 360' C
109-89-7	Diethylamine	100.0	L	9' C	
60-29-7	Diethylether	100.0	L		> 360' C
108-83-8	Diisobutyl ketone	100.0	L		> 360' C
28454-70-8	Diisononylamin	100.0	L	21' C	
927-62-8	Dimethylbutylamine	100.0	L	> 480' C	> 480' C
68-12-2	Dimethylformamide	100.0	L	13' C	
5989-27-5	Dipentene ((+)-Limonene)	100.0	L		> 480' C
138-86-3	Dipentene (isomeric form not specified)	100.0	L		> 480' C
111-43-3	Dipropyl ether	100.0	L	> 480' C	
106-89-8	Epichlorohydrin	100.0	L		300' C
141-43-5	Ethanolamine	100.0	L		> 360' C
141-78-6	Ethyl acetate	100.0	L	> 480' C	360' C
111-15-9	Ethyl glycol ethyl ether acetate	100.0	L		> 360' C
97-64-3	Ethyl lactate	100.0	L		125' C
107-21-1	Ethylene Glycol	100.0	L		120' C
110-71-4	Ethylene Glycol Dimethyl Ether	100.0	L	153' C	111' C

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109-86-4	Ethylene glycol monomethyl ether	100.0	L		30' C
98-01-1	Furaldehyde	100.0	L		> 360' C
96-48-0	Gamma-Butyrolactone	100.0	L		120' C
8006-61-9	Gasoline, natural	100.0	L		> 360' C
111-30-8	Glutaraldehyde	50.0	L	< 10' C	
111-30-8	Glutaraldehyde, aqueous sol.	25.0	L		< 10' C
142-82-5	Heptane	100.0	L	> 480' C	> 480' C
392-56-3	Hexafluorobenzene	100.0	L	> 480' C	
999-97-3	Hexamethyldisilazane	100.0	L		> 360' C
7647-01-0	Hydrochloric acid	37.0	L	< 10' C	
7647-01-0	Hydrochloric acid	32.0	L	< 10' C	
74-88-4	Iodomethane	100.0	L		> 360' C
78-81-9	Isobutylamine	100.0	L	< 10' C	
27775-00-4	Isononylamin	100.0	L	21' C	
78-59-1	Isophorone	100.0	L	> 480' C	
67-63-0	Isopropanol	100.0	L	72' C	
8008-20-6	Kerosene	100.0	L		> 360' C
64742-81-0	Kerosine, hydrodesulphurised	100.0	L		> 480' C
67-56-1	Methanol	100.0	L	5' C	

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110-12-3	Methyl Isoamyl Ketone	100.0	L		> 360' C
108-10-1	Methyl isobutyl ketone	70.0	L		> 360' C
80-62-6	Methyl methacrylate	100.0	L		> 360' C
64475-85-0	Mineral Spirits, Rule 66	100.0	L		> 360' C
110-91-8	Morpholine	100.0	L		90' C
121-69-7	N,N-Dimethylbenzenamine	100.0	L	> 480' C	> 480' C
71-36-3	n-Butanol	100.0	L		75' C
123-86-4	n-Butyl acetate	100.0	L	> 480' C	> 360' C
109-73-9	n-Butylamine	100.0	L	< 10' C	< 10' C
1126-78-9	N-Butylaniline	100.0	L	62' C	45' C
110-68-9	N-Butylmethylamine	100.0	L	21' C	11' C
110-54-3	n-Hexane	100.0	L	> 480' C	> 360' C
100-61-8	N-Methylaniline	100.0	L	> 480' C	> 480' C
109-66-0	n-Pentane	100.0	L		> 360' C
71-23-8	n-Propanol	100.0	L	68' C	
109-60-4	n-Propyl acetate	100.0	L		120' C
8030-30-6	Naphtha	100.0	L		420' C
98-95-3	Nitrobenzene	100.0	L	> 480' C	> 360' C
75-52-5	Nitromethane	100.0	L		> 360' C

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111-87-5	Octyl alcohol	100.0	L		> 360' C
111-86-4	Octylamine	100.0	L	21' C	12' C
112-80-1	Oleic acid	100.0	L		60' C
307-34-6	Perfluorooctane	100.0	L	> 480' C	
108-95-2	Phenol	90.0	L		> 360' C
108-95-2	Phenol	85.0	L		> 360' C
7664-38-2	Phosphoric acid	85.0	L	< 10' C	
75-56-9	Propylene Oxide	100.0	L		35' C
110-86-1	Pyridine	100.0	L	8' C	10' C
7631-90-5	Sodium bisulfite, saturated solution	40.0	L	< 5' C	
1310-73-2	Sodium Hydroxide, sat. sol.	50.0	L	< 5' C	
8052-41-3	Stoddard solvent	100.0	L		> 360' C
100-42-5	Styrene	100.0	L	> 480' C	> 360' C
7664-93-9	Sulfuric acid	96.0	L	< 5' C	
1634-04-4	Tert-Butyl Methyl Ether	100.0	L		> 480' C
127-18-4	Tetrachloroethylene	100.0	L		> 360' C
109-99-9	Tetrahydrofuran	100.0	L	52' C	
110-01-0	Tetrahydrothiophene	100.0	L	> 480' C	
108-88-3	Toluene	100.0	L	> 480' C	> 480' C

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CAS	Chemical Name	%	PS	EN ISO 374	ASTM F739
26471-62-5	Toluene diisocyanate, mixed isomers	100.0	L		> 360' C
102-82-9	Tributylamine	100.0	L	> 480' C	> 480' C
79-01-6	Trichloroethylene	100.0	L		> 360' C
1330-78-5	Tricresyl phosphate, isomeric mixture	100.0	L		> 360' C
102-71-6	Triethanolamine	100.0	L		> 360' C
121-44-8	Triethylamine	100.0	L	> 480' C	
8006-64-2	Turpentine (oil)	100.0	L		> 360' C
1330-20-7	Xylene, isomeric mixture	100.0	L	> 480' C	> 360' C
	Ardrox 2106 HV		L		> 480' C
	Phenol (CAS#108-95-2, 45 C, molten)		L	55' C	44' C