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AnsellGUARDIAN[®] Chemical Report

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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 $1.0 \mu\text{g} / \text{cm}^2 / \text{min}$ (as per EN ISO 374) or $0.1 \mu\text{g} / \text{cm}^2 / \text{min}$ (as per ASTM F739).

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



Product Group : 29-865
 Brand : AlphaTec®
 Material : Neoprene
 Thickness (mm) : 0.45 mm / 18 mil

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		> 480' C
76-13-1	1,1,2-Trichloro-1,2,2-trifluoroethane	100.0	L		240' C
106-94-5	1-Bromopropane	100.0	L		< 10' C
108-65-6	1-Methoxy-2-Propylacetate	100.0	L		37' C
108-03-2	1-Nitropropane	100.0	L		30' C
71-41-0	1-Pentanol	100.0	L		348' C
540-84-1	2,2,4-Trimethylpentane	100.0	L		268' C
598-72-1	2-Bromopropionic Acid	100.0	L		460' C
111-76-2	2-Butoxyethanol	100.0	L		180' C
611-19-8	2-Chlorobenzyl Chloride	100.0	L		200' C
110-80-5	2-Ethoxyethanol	100.0	L		128' C
110-43-0	2-Heptanone	100.0	L		10' C
78-83-1	2-Methyl-1-propanol	100.0	L		478' C
79-46-9	2-Nitropropane	100.0	L		25' C
75-07-0	Acetaldehyde	100.0	L		10' C
64-19-7	Acetic acid	100.0	L		390' C



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67-64-1	Acetone	100.0	L		10' c
75-05-8	Acetonitrile	100.0	L		20' c
79-10-7	Acrylic acid	100.0	L		395' c
107-18-6	Allyl alcohol	100.0	L		140' c
12125-01-8	Ammonium fluoride, aqueous solution	40.0	L		> 480' c
1336-21-6	Ammonium hydroxide	33.0	L		250' c
62-53-3	Aniline	100.0	L		145' c
8007-56-5	Aqua Regia	100.0	L		> 480' c
112-34-5	Butyldiglycol	100.0	L		188' c
77-92-9	Citric acid aqueous solution	10.0	L		> 480' c
502-42-1	Cycloheptanone	100.0	L		23' c
108-93-0	Cyclohexanol	100.0	L		390' c
108-94-1	Cyclohexanone	100.0	L		23' c
117-81-7	Di-2-(ethylhexyl)phthalate	100.0	L		> 480' c
123-42-2	Diacetone Alcohol	100.0	L		208' c
84-74-2	Dibutyl phthalate	100.0	L		132' c
60-29-7	Diethylether	100.0	L		< 10' c



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67-68-5	Dimethyl Sulfoxide	100.0	L		398' C
68-12-2	Dimethylformamide	100.0	L		45' C
64-17-5	Ethanol	95.0	L		113' C
141-43-5	Ethanolamine	100.0	L		400' C
141-78-6	Ethyl acetate	100.0	L		10' C
111-15-9	Ethyl glycol ethyl ether acetate	100.0	L		40' C
97-64-3	Ethyl lactate	100.0	L		125' C
107-21-1	Ethylene Glycol	100.0	L		> 480' C
109-86-4	Ethylene glycol monomethyl ether	100.0	L		10' C
64-18-6	Formic acid	90.0	L		> 480' C
98-01-1	Furaldehyde	100.0	L		40' C
96-48-0	Gamma-Butyrolactone	100.0	L		245' C
111-30-8	Glutaraldehyde, aqueous sol.	25.0	L		> 480' C
999-97-3	Hexamethyldisilazane	100.0	L		42' C
7803-57-8	Hydrazine monohydrate, 64%-65% hydrazine	98.0	L		386' C
7647-01-0	Hydrochloric acid	10.0	L		> 480' C
7647-01-0	Hydrochloric acid	37.0	L		> 480' C



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7664-39-3	Hydrofluoric Acid	49.0	L		> 480' C
10035-10-6	Hydrogen bromide, aqueous solutions	48.0	L		> 480' C
7722-84-1	Hydrogen peroxide	30.0	L		> 480' C
6303-21-5	Hypophosphorus Acid	50.0	L		> 240' C
67-63-0	Isopropanol	100.0	L		110' C
8008-20-6	Kerosene	100.0	L		185' C
64742-81-0	Kerosine, hydrodesulphurised	100.0	L		185' C
110-16-7	Maleic acid, sat. sol.	33.0	L		> 480' C
67-56-1	Methanol	100.0	L	108' C	73' C
74-89-5	Methylamine, 40% aqueous solution	40.0	L		153' C
64475-85-0	Mineral Spirits, Rule 66	100.0	L		125' C
71-36-3	n-Butanol	100.0	L		270' C
110-54-3	n-Hexane	100.0	L		48' C
109-66-0	n-Pentane	100.0	L		30' C
71-23-8	n-Propanol	100.0	L		323' C
8030-30-6	Naphtha	100.0	L		103' C
7697-37-2	Nitric Acid	30.0	L		> 480' C



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7697-37-2	Nitric acid	70.0	L		> 480' C
7697-37-2	Nitric acid	10.0	L		> 480' C
75-52-5	Nitromethane	100.0	L		60' C
111-87-5	Octyl alcohol	100.0	L		218' C
144-62-7	Oxalic acid, sat. sol	10.0	L		> 480' C
98-56-6	p-Chlorbenzotrifluoride	100.0	L		50' C
7601-90-3	Perchloric acid	60.0	L		> 480' C
108-95-2	Phenol	85.0	L		353' C
108-95-2	Phenol	90.0	L		353' C
7664-38-2	Phosphoric acid	85.0	L		> 360' C
1310-58-3	Potassium Hydroxide, aqueous solutions	30.0	L		> 480' C
1310-73-2	Sodium Hydroxide	40.0	L	> 480' C	> 480' C
1310-73-2	Sodium Hydroxide, sat. sol.	50.0	L		> 480' C
7664-93-9	Sulfuric acid	99.0	L		24' C
7664-93-9	Sulfuric acid	96.0	L	82' C	
1401-55-4	Tannic acid, aqueous solution	65.0	L		> 480' C
1330-78-5	Tricresyl phosphate, isomeric mixture	100.0	L		253' C