

Ansell

AnsellGUARDIAN[®] Chemical Report

Ansell

Ansell



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 : 38-612
 Brand : AlphaTec®
 Material : Viton Butyl
 Thickness (mm) : 0.30 mm / 12 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
138495-42-8	1,1,1,2,3,4,4,5,5,5-Decafluoropentane	100.0	L		> 480' c
106-94-5	1-Bromopropane	100.0	L		182' c
108-65-6	1-Methoxy-2-Propylacetate	100.0	L		334' c
108-03-2	1-Nitropropane	100.0	L		255' c
71-41-0	1-Pentanol	100.0	L		> 480' c
540-84-1	2,2,4-Trimethylpentane	100.0	L		> 480' c
111-76-2	2-Butoxyethanol	100.0	L		> 480' 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		465' c
110-43-0	2-Heptanone	100.0	L		17' c
78-83-1	2-Methyl-1-propanol	100.0	L		> 480' c
106-43-4	4-Chlorotoluene	100.0	L		> 480' c
64-19-7	Acetic acid	100.0	L		> 480' c
67-64-1	Acetone	100.0	L	108' c	93' c
75-05-8	Acetonitrile	100.0	L	204' c	
107-13-1	Acrylonitrile	100.0	L		> 480' c
107-18-6	Allyl alcohol	100.0	L		> 180' c
90-13-1	alpha-Chloronaphthalene	100.0	L		> 480' c



Product Group : 38-612
 Brand : AlphaTec®
 Material : Viton Butyl
 Thickness (mm) : 0.30 mm / 12 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
1336-21-6	Ammonium hydroxide	33.0	L		> 480' C
628-63-7	Amyl acetate	100.0	L		< 1' C
62-53-3	Aniline	100.0	L		> 480' C
8007-56-5	Aqua Regia	100.0	L		> 480' C
100-52-7	Benzaldehyde	100.0	L		100' C
71-43-2	Benzene	100.0	L		253' C
98-07-7	Benzotrichloride	100.0	L		100' C
75-15-0	Carbon disulfide	100.0	L		138' C
108-90-7	Chlorobenzene	100.0	L		> 480' C
67-66-3	Chloroform	100.0	L		212' C
502-42-1	Cycloheptanone	100.0	L		150' C
110-82-7	Cyclohexane	100.0	L		> 480' C
108-93-0	Cyclohexanol	100.0	L		> 480' C
108-94-1	Cyclohexanone	100.0	L		150' C
74-95-3	Dibromomethane	100.0	L		> 480' C
75-09-2	Dichloromethane	100.0	L	68' C	36' C
109-89-7	Diethylamine	100.0	L		19' C
108-83-8	Diisobutyl ketone	100.0	L		15' C
67-68-5	Dimethyl Sulfoxide	100.0	L		> 480' C



Product Group : 38-612
 Brand : AlphaTec®
 Material : Viton Butyl
 Thickness (mm) : 0.30 mm / 12 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
68-12-2	Dimethylformamide	100.0	L		> 480' c
5989-27-5	Dipentene ((+)-Limonene)	100.0	L		> 480' c
138-86-3	Dipentene (isomeric form not specified)	100.0	L		> 480' c
64-17-5	Ethanol	95.0	L		> 480' c
141-43-5	Ethanolamine	100.0	L		120' c
1239-45-8	Ethidiumbromide, saturated aqueous solution	4.0	L		> 480' c
141-78-6	Ethyl acetate	100.0	L	25' c	10' c
111-15-9	Ethyl glycol ethyl ether acetate	100.0	L		105' c
97-64-3	Ethyl lactate	100.0	L		> 480' c
109-86-4	Ethylene glycol monomethyl ether	100.0	L		> 480' c
50-00-0	Formaldehyde	37.0	L	> 480' c	> 480' c
50-00-0	Formaldehyde	50.0	L	> 480' c	> 480' c
98-01-1	Furaldehyde	100.0	L		> 480' c
96-48-0	Gamma-Butyrolactone	100.0	L		> 480' c
8006-61-9	Gasoline, natural	100.0	L		> 480' c
142-82-5	Heptane	100.0	L		> 480' c
999-97-3	Hexamethyldisilazane	100.0	L		> 480' c
7664-39-3	Hydrofluoric Acid	49.0	L		> 480' c



Product Group : 38-612
 Brand : AlphaTec®
 Material : Viton Butyl
 Thickness (mm) : 0.30 mm / 12 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
7664-39-3	Hydrofluoric Acid	40.0	L	> 480' c	
7722-84-1	Hydrogen peroxide	30.0	L	> 480' c	> 480' c
74-88-4	Iodomethane	100.0	L		15' c
8008-20-6	Kerosene	100.0	L		> 480' c
64742-81-0	Kerosine, hydrodesulphurised	100.0	L		> 480' c
67-56-1	Methanol	100.0	L	> 480' c	363' c
110-12-3	Methyl Isoamyl Ketone	100.0	L		30' c
80-62-6	Methyl methacrylate	100.0	L		10' c
74-89-5	Methylamine, 40% aqueous solution	40.0	L		> 480' c
110-91-8	Morpholine	100.0	L		235' c
127-19-5	N,N-Dimethylacetamide	100.0	L		> 480' c
71-36-3	n-Butanol	100.0	L		> 480' c
123-86-4	n-Butyl acetate	100.0	L		< 10' c
110-54-3	n-Hexane	100.0	L		> 480' c
71-23-8	n-Propanol	100.0	L		> 480' c
109-60-4	n-Propyl acetate	100.0	L		< 10' c
98-95-3	Nitrobenzene	100.0	L		> 480' c
75-52-5	Nitromethane	100.0	L		249' c
98-56-6	p-Chlorbenzotrifluoride	100.0	L		48' c



Product Group : 38-612
 Brand : AlphaTec®
 Material : Viton Butyl
 Thickness (mm) : 0.30 mm / 12 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
108-95-2	Phenol	85.0	L		> 480' c
108-95-2	Phenol	90.0	L		> 480' c
111-35-3	Propylene glycol, monoethyl ether	100.0	L		> 480' c
107-98-2	Propylene Glycol-1-methylether	100.0	L		> 480' c
75-56-9	Propylene Oxide	100.0	L		< 10' c
110-86-1	Pyridine	100.0	L		40' 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
100-42-5	Styrene	100.0	L		> 480' c
7664-93-9	Sulfuric acid	96.0	L	> 480' c	> 480' c
7664-93-9	Sulfuric acid	99.0	L		> 480' c
127-18-4	Tetrachloroethylene	100.0	L		> 480' c
109-99-9	Tetrahydrofuran	100.0	L		10' c
108-88-3	Toluene	100.0	L	> 480' c	313' c
26471-62-5	Toluene diisocyanate, mixed isomers	100.0	L		> 480' c
79-01-6	Trichloroethylene	100.0	L		204' c
1330-78-5	Tricresyl phosphate, isomeric mixture	100.0	L		> 480' c
8006-64-2	Turpentine (oil)	100.0	L		> 480' c
1330-20-7	Xylene, isomeric mixture	100.0	L		> 480' c



Product Group : 38-612
Brand : AlphaTec®
Material : Viton Butyl
Thickness (mm) : 0.30 mm / 12 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
	Ardrox 2106 HV		L		29' C