

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 µg/cm²/min (as per EN ISO 374), 0.1 µg /cm²/min (as per ASTM F739), or 0.01 µg/cm²/min (as per ASTM D6978).

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



Product Group : 38-520
Brand : AlphaTec™
Material : Butyl
Thickness (mm) : 0.5 mm / 19.7 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
108-65-6	1-Methoxy-2-Propylacetate	100.0	L		> 480' c
108-03-2	1-Nitropropane	100.0	L		> 480' c
71-41-0	1-Pentanol	100.0	L		> 480' c
540-84-1	2,2,4-Trimethylpentane	100.0	L		58' 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	10' c	
110-80-5	2-Ethoxyethanol	100.0	L		> 480' c
110-43-0	2-Heptanone	100.0	L		155' c
78-83-1	2-Methyl-1-propanol	100.0	L		> 480' c
64-19-7	Acetic acid	100.0	L	> 480' c	> 480' c
67-64-1	Acetone	100.0	L	> 480' c	
75-05-8	Acetonitrile	100.0	L	> 480' c	> 480' c
107-13-1	Acrylonitrile	100.0	L		> 480' c
107-18-6	Allyl alcohol	100.0	L		> 480' c
628-63-7	Amyl acetate	100.0	L		128' c
62-53-3	Aniline	100.0	L		> 480' c
8007-56-5	Aqua Regia	100.0	L		> 480' c



Product Group : 38-520
 Brand : AlphaTec™
 Material : Butyl
 Thickness (mm) : 0.5 mm / 19.7 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
100-52-7	Benzaldehyde	100.0	L		> 480' C
71-43-2	Benzene	100.0	L	19' C	20' C
75-15-0	Carbon disulfide	100.0	L	< 5' C	7' C
108-90-7	Chlorobenzene	100.0	L		9' C
67-66-3	Chloroform	100.0	L		5' C
110-82-7	Cyclohexane	100.0	L		30' C
108-93-0	Cyclohexanol	100.0	L		> 480' C
108-94-1	Cyclohexanone	100.0	L		> 480' C
117-84-0	Di-n-octylphthalate	100.0	L		> 480' C
123-42-2	Diacetone Alcohol	100.0	L		> 480' C
74-95-3	Dibromomethane	100.0	L		70' C
75-09-2	Dichloromethane	100.0	L	9' C	
109-89-7	Diethylamine	100.0	L	8' C	
60-29-7	Diethylether	100.0	L	7' C	
108-83-8	Diisobutyl ketone	100.0	L		231' C
67-68-5	Dimethyl Sulfoxide	100.0	L		> 480' C
68-12-2	Dimethylformamide	100.0	L		> 480' C
123-91-1	Dioxane	100.0	L		> 480' C
106-89-8	Epichlorohydrin	100.0	L		> 480' C



Product Group : 38-520
Brand : AlphaTec™
Material : Butyl
Thickness (mm) : 0.5 mm / 19.7 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
1239-45-8	Ethidium bromide, sat. solution	5.0	L		> 480' c
141-78-6	Ethyl acetate	100.0	L	100' c	
111-15-9	Ethyl glycol ethyl ether acetate	100.0	L		> 480' 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	
64-18-6	Formic acid	90.0	L		> 480' c
98-01-1	Furaldehyde	100.0	L		> 480' c
96-48-0	Gamma-Butyrolactone	100.0	L		> 480' c
142-82-5	Heptane	100.0	L	9' c	
999-97-3	Hexamethyldisilazane	100.0	L		305' c
7803-57-8	Hydrazine monohydrate, 64%-65% hydrazine	100.0	L		> 480' c
7664-39-3	Hydrofluoric Acid	40.0	L	> 480' c	
7664-39-3	Hydrofluoric Acid	49.0	L		> 480' c
7722-84-1	Hydrogen peroxide	30.0	L	> 480' c	
74-88-4	Iodomethane	100.0	L		15' c
67-56-1	Methanol	100.0	L	> 480' c	> 480' c
78-93-3	Methyl ethyl ketone	100.0	L	186' c	183' c
108-10-1	Methyl Isobutyl Ketone	100.0	L		245' c



Product Group : 38-520
Brand : AlphaTec™
Material : Butyl
Thickness (mm) : 0.5 mm / 19.7 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
80-62-6	Methyl methacrylate	100.0	L		85' c
74-89-5	Methylamine, 40% aqueous solution	40.0	L		> 480' c
110-91-8	Morpholine	100.0	L		> 480' c
127-19-5	N,N-Dimethylacetamide	100.0	L	> 480' c	> 480' c
4637-24-5	N,N-Dimethylformamide dimethyl acetal	100.0	L	7' c	
71-36-3	n-Butanol	100.0	L		> 480' c
123-86-4	n-Butyl acetate	100.0	L	77' c	80' c
110-54-3	n-Hexane	100.0	L	7' c	5' c
872-50-4	N-Methyl-2-pyrrolidone	100.0	L		> 480' c
71-23-8	n-Propanol	100.0	L		> 480' c
109-60-4	n-Propyl acetate	100.0	L		135' c
7697-37-2	Nitric acid	70.0	L	> 480' c	
98-95-3	Nitrobenzene	100.0	L		> 480' c
75-52-5	Nitromethane	100.0	L		> 480' c
98-56-6	p-Chlorbenzotrifluoride	100.0	L		75' c
108-95-2	Phenol	90.0	L		> 480' c
107-98-2	Propylene Glycol-1-methylether	100.0	L		> 480' c
75-56-9	Propylene Oxide	100.0	L		43' c
110-86-1	Pyridine	100.0	L	252' c	



Product Group : 38-520
 Brand : AlphaTec™
 Material : Butyl
 Thickness (mm) : 0.5 mm / 19.7 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
1310-73-2	Sodium Hydroxide	40.0	L	> 480' c	> 480' c
100-42-5	Styrene	100.0	L		26' c
7664-93-9	Sulfuric acid	96.0	L	408' c	
1634-04-4	Tert-Butyl Methyl Ether	100.0	L		38' c
127-18-4	Tetrachloroethylene	100.0	L	13' c	< 10' c
109-99-9	Tetrahydrofuran	100.0	L	9' c	
108-88-3	Toluene	100.0	L	10' c	
26471-62-5	Toluene diisocyanate, mixed isomers	100.0	L		> 480' c
79-01-6	Trichloroethylene	100.0	L	5' c	
1330-78-5	Tricresyl phosphate, isomeric mixture	100.0	L		> 480' c
149-73-5	Trimethoxymethane	100.0	L	> 480' c	
1330-20-7	Xylene, isomeric mixture	100.0	L	19' c	
	Hydrogen Fluoride (CAS# 7664-39-3, 17 C)		L	> 480' c	