

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 : 08-352.354
 Brand : AlphaTec®
 Material : Neoprene
 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
540-84-1	2,2,4-Trimethylpentane	100.0	L	> 480' c	
95-49-8	2-Chlorotoluene	100.0	L	< 5' c	
110-80-5	2-Ethoxyethanol	100.0	L	290' c	
122-99-6	2-Phenoxyethanol	100.0	L	> 480' c	> 480' c
98-17-9	3-(Trifluoromethyl)phenol	100.0	L	> 480' c	
107-85-7	3-Methylbutylamin	100.0	L	22' c	
64-19-7	Acetic acid	100.0	L	452' c	
67-64-1	Acetone	100.0	L	< 5' c	
75-05-8	Acetonitrile	100.0	L	28' c	
107-13-1	Acrylonitrile	100.0	L	43' c	
7664-41-7	Ammonia, gas	100.0	G	> 480' c	108' c
1336-21-6	Ammonium hydroxide	25.0	L	> 480' c	
1336-21-6	Ammonium hydroxide	35.0	L	> 480' c	
62-53-3	Aniline	100.0	L	234' c	181' c
100-66-3	Anisole	100.0	L	34' c	32' c
71-43-2	Benzene	100.0	L	< 5' c	
65-85-0	Benzoic Acid, sat. solution	1.0	L	> 480' c	> 480' c
75-15-0	Carbon disulfide	100.0	L	< 5' c	
108-94-1	Cyclohexanone	100.0	L	71' c	



Product Group : 08-352.354
 Brand : AlphaTec®
 Material : Neoprene
 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
111-92-2	Dibutylamine	100.0	L	73' c	58' c
1300-21-6	Dichloroethane	100.0	L	15' c	
109-89-7	Diethylamine	100.0	L	< 5' c	
60-29-7	Diethylether	100.0	L	14' c	
28454-70-8	Diisononylamin	100.0	L	74' c	
108-20-3	Diisopropylether	100.0	L	26' c	13' c
927-62-8	Dimethylbutylamine	100.0	L	22' c	12' c
68-12-2	Dimethylformamide	100.0	L	35' c	
111-43-3	Dipropyl ether	100.0	L	29' c	
64-17-5	Ethanol	95.0	L	> 480' c	
110-71-4	Ethylene Glycol Dimethyl Ether	100.0	L	16' c	8' c
50-00-0	Formaldehyde	37.0	L	> 480' c	
64-18-6	Formic acid	98.0	L	> 480' c	
142-82-5	Heptane	100.0	L	142' c	
392-56-3	Hexafluorobenzene	100.0	L	> 480' c	
7647-01-0	Hydrochloric acid	32.0	L	> 480' c	
7647-01-0	Hydrochloric acid	37.0	L	> 480' c	
7664-39-3	Hydrofluoric Acid	40.0	L	> 480' c	
7664-39-3	Hydrofluoric Acid	49.0	L	> 480' c	



Product Group : 08-352.354
 Brand : AlphaTec®
 Material : Neoprene
 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
7664-39-3	Hydrofluoric Acid	60.0	L	> 480' c	
7722-84-1	Hydrogen peroxide	30.0	L	> 480' c	
78-81-9	Isobutylamine	100.0	L	13' c	
27775-00-4	Isononylamin	100.0	L	74' c	
67-63-0	Isopropanol	100.0	L	> 480' c	
67-56-1	Methanol	100.0	L	193' c	
78-93-3	Methyl ethyl ketone	100.0	L	5' c	
108-10-1	Methyl Isobutyl Ketone	100.0	L	16' c	
80-62-6	Methyl methacrylate	100.0	L	8' c	
121-69-7	N,N-Dimethylbenzenamine	100.0	L	50' c	41' c
4637-24-5	N,N-Dimethylformamide dimethyl acetal	100.0	L	14' c	
123-86-4	n-Butyl acetate	100.0	L	9' c	
109-73-9	n-Butylamine	100.0	L	13' c	< 10' c
1126-78-9	N-Butylaniline	100.0	L	96' c	49' c
110-68-9	N-Butylmethylamine	100.0	L	14' c	10' c
110-54-3	n-Hexane	100.0	L	54' c	
872-50-4	N-Methyl-2-pyrrolidone	100.0	L	59' c	13' c
100-61-8	N-Methylaniline	100.0	L	103' c	87' c
71-23-8	n-Propanol	100.0	L	> 480' c	



Product Group : 08-352.354
 Brand : AlphaTec®
 Material : Neoprene
 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
7697-37-2	Nitric acid	65.0	L	> 480' c	
7697-37-2	Nitric acid	70.0	L	> 480' c	
7697-37-2	Nitric acid, fuming	100.0	L	< 3' c	
111-86-4	Octylamine	100.0	L	74' c	70' c
26635-93-8	Oleyl amine ethoxylate	100.0	L	> 480' c	
307-34-6	Perfluorooctane	100.0	L	> 480' c	
108-95-2	Phenol	90.0	L	> 480' c	
13598-36-2	Phosphorous acid	100.0	S	> 480' c	
88-89-1	Picric acid saturated solution	1.0	L	> 480' c	> 480' c
110-85-0	Piperazine	100.0	S	> 480' c	
107-12-0	Propionitrile	100.0	L	98' c	
1569-02-4	Propylene glycol monoethyl ether	100.0	L	290' c	
1310-73-2	Sodium Hydroxide	40.0	L	> 480' c	
1310-73-2	Sodium Hydroxide, sat. sol.	50.0	L	> 480' c	
100-42-5	Styrene	100.0	L	< 5' c	
7664-93-9	Sulfuric acid	96.0	L	230' c	
127-18-4	Tetrachloroethylene	100.0	L	4' c	
109-99-9	Tetrahydrofuran	100.0	L	< 5' c	
110-01-0	Tetrahydrothiophene	100.0	L	7' c	



Product Group : 08-352.354
 Brand : AlphaTec®
 Material : Neoprene
 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
108-88-3	Toluene	100.0	L	< 5' c	
102-82-9	Tributylamine	100.0	L	> 480' c	> 480' c
121-44-8	Triethylamine	100.0	L	< 5' c	
1330-20-7	Xylene, isomeric mixture	100.0	L	17' c	
	Hydrogen Fluoride (CAS# 7664-39-3, 17 C)		L	35' c	
	Phenol (CAS#108-95-2, 45 C, molten)		L	72' c	45' c
	Phenol 30%(CAS#108-95-2, at 70 C)		L	23' c	14' c
	Phenol 50%(CAS#108-95-2, at 70 C)		L	30' c	15' c