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AnsellGUARDIAN® Chemical Report

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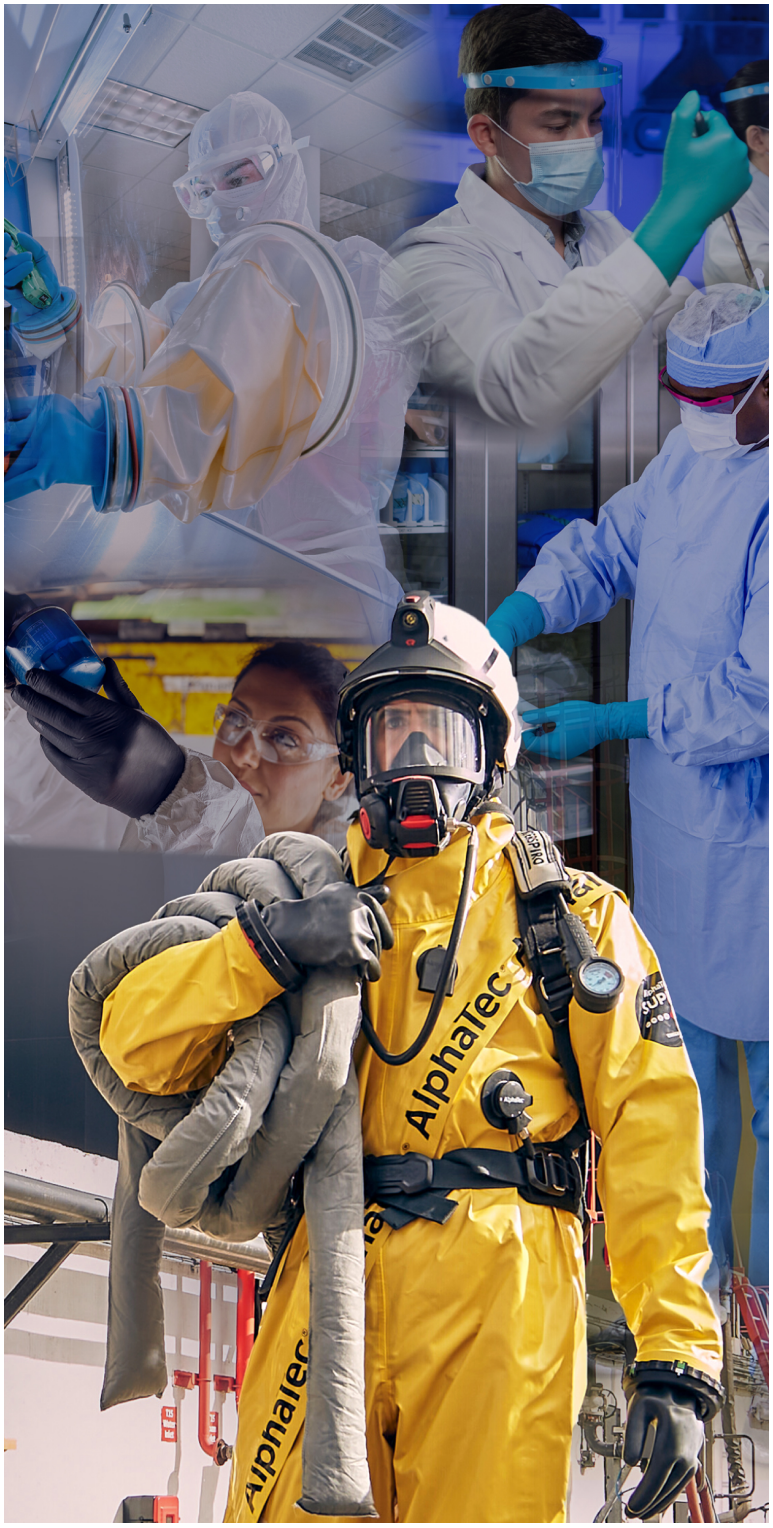

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Disclaimer

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 : XCEED 93-833.XC-310
Brand : MICROFLEX®
Material : Nitrile
Thickness (mm) : 0.07 mm / 2.8 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
95-49-8	2-Chlorotoluene	100.0	L	< 1' C	
75-07-0	Acetaldehyde	100.0	L	< 1' C	
64-19-7	Acetic acid	10.0	L	316' C	128' C
64-19-7	Acetic acid	50.0	L	25' C	24' C
67-64-1	Acetone	100.0	L	0' C	< 1' C
75-05-8	Acetonitrile	100.0	L	< 1' C	
79-06-1	Acrylamide, aqueous solution	40.0	L	> 480' C	165' C
1336-21-6	Ammonium hydroxide	25.0	L	6' C	6' C
109-89-7	Diethylamine	100.0	L	1' C	1' C
60-29-7	Diethylether	100.0	L	< 1' C	
67-68-5	Dimethyl Sulfoxide	100.0	L	5' C	5' C
64-17-5	Ethanol	50.0	L	16' C	9' C
64-17-5	Ethanol	70.0	L	21' C	10' C
64-17-5	Ethanol	100.0	L	2' C	
1239-45-8	Ethidiumbromide, saturated aqueous solution	4.0	L	> 480' C	> 480' C
141-78-6	Ethyl acetate	100.0	L	< 1' C	
109-86-4	Ethylene glycol monomethyl ether	100.0	L	< 1' C	
437-38-7	Fentanyl	1.0	L		> 240' C
50-00-0	Formaldehyde	37.0	L	> 480' C	> 480' C

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CAS	Chemical Name	%	PS	EN ISO 374	ASTM F739
111-30-8	Glutaraldehyde	50.0	L	> 480' C	> 480' C
142-82-5	Heptane	100.0	L	11' C	9' C
7647-01-0	Hydrochloric acid	37.0	L	37' C	34' C
7664-39-3	Hydrofluoric Acid	10.0	L	> 480' C	> 480' C
7664-39-3	Hydrofluoric Acid	40.0	L	> 480' C	> 480' C
7722-84-1	Hydrogen peroxide	30.0	L	> 480' C	12' C
67-63-0	Isopropanol	70.0	L	157' C	52' C
67-63-0	Isopropanol	100.0	L	18' C	14' C
67-56-1	Methanol	100.0	L	1' C	
78-93-3	Methyl ethyl ketone	100.0	L	< 1' C	
8042-47-5	Mineral oil, light and heavy	100.0	L	121' C	108' C
4637-24-5	N,N-Dimethylformamide dimethyl acetal	100.0	L	< 1' C	
71-36-3	n-Butanol	100.0	L	18' C	10' C
123-86-4	n-Butyl acetate	100.0	L	1' C	
110-54-3	n-Hexane	100.0	L	10' C	7' C
7697-37-2	Nitric acid	50.0	L	7' C	7' C
7697-37-2	Nitric acid	65.0	L	4' C	4' C
7697-37-2	Nitric acid	70.0	L	2' C	
79-21-0	Peracetic acid	39.0	L	12' C	11' C
57-55-6	Propylene Glycol	100.0	L	> 480' C	> 480' C

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CAS	Chemical Name	%	PS	EN ISO 374	ASTM F739
110-86-1	Pyridine	100.0	L	< 1' C	
1310-73-2	Sodium Hydroxide	40.0	L	> 480' C	> 480' C
7681-52-9	Sodium Hypochlorite, aqueous solution	12.0	L	> 480' C	> 480' C
7664-93-9	Sulfuric acid	50.0	L	> 480' C	> 480' C
7664-93-9	Sulfuric acid	96.0	L	6' C	6' C
108-88-3	Toluene	100.0	L	< 1' C	
76-03-9	Trichloroacetic acid, sat. solution	70.0	L	1' C	
121-44-8	Triethylamine	50.0	L	6' C	5' C
121-44-8	Triethylamine	100.0	L	7' C	
	Gastric Acid		L		> 240' C
	THC solution in 70% IPA		L	> 480' C	178' C