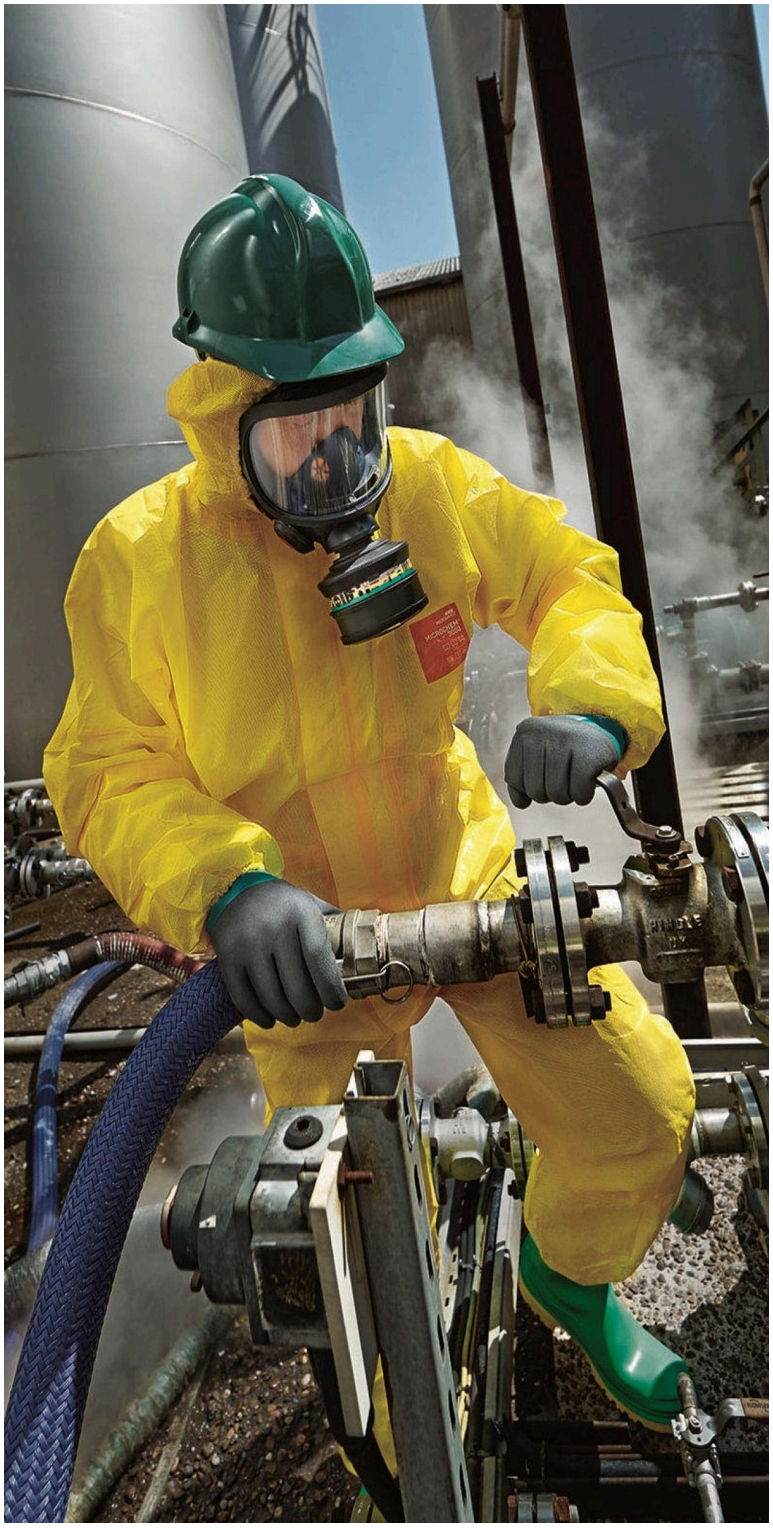
ReportnfHvpLxc

AnsellGUARDIAN® Chemical Report

Sep 08, 2025



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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

Degradation Ratings	
DD	Delamination of outer layer
NR	Not Recommended
P	Poor
F	Fair
G	Good
E	Excellent

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).

Degradation ratings evaluate the amount of change a glove material will suffer due to contact with a chemical.

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

Legend for Body Protection

Permeation Barrier Performance
No Barrier
Splash/Limited Barrier
Medium Barrier
Good Barrier

Permeation Breakthrough Times - $BT_{1.0}$

The $BT_{1.0}$ is the time taken (in minutes) for the chemical in question to be permeating through the material at a rate of 1.0 µg /cm^2/min. This can be determined with a number of standard test methods including EN 16523-1 and ISO 6529. It is commonly used mainly within the regions concerned with EN and ISO standards.

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

Permeation Breakthrough Times

The permeation breakthrough times present in this chart were evaluated according to EN ISO 374 standard. Colored cells with numbers and the symbol C correspond to experimentally determined data generated by an accredited laboratory. The rest of cells correspond to estimations
For inquiries about chemical testing, please contact anselltesting@ansell.com.

Material				PVC/Nitrile	PVC/Nitrile	PVA	Nitrile	Butyl	Nitrile /Neoprene	Nitrile	Nitrile	Nitrile /Neoprene	Nitrile
Thickness (mm)				NA mm NA mil	N.A.	N.A.	0.56 mm 22 mil	0.35 mm 14 mil	0.38 mm 15 mil	N.A.	0.125 mm 4.9 mil	0.20 mm 7.9 mil	0.11 mm 4.3 mil
Brand				AlphaTec®	AlphaTec®	AlphaTec®	AlphaTec® Solvex®	AlphaTec®	AlphaTec®	AlphaTec®	TouchNTuff®	MICROFLEX®	MICROFLEX®
Product Group				04-002.003	04-004.005	15-554	37-185.165 /58-008	38-001	53-001	58-530.535	92-600.605 . 93-300.700	93-260.360	93-743.843 /94-243. Supreno SE SU-690
CAS	Chemical Name	%	PS										
3483-12-3	(R,R)-1,4-Dimercapto-2,3-butanediol	100.0	S	> 480'	> 480'	> 480'	> 480'	> 480'	> 480'	> 480'	> 480'	> 480'	> 480'
16752-77-5	(E,Z)-methyl N-{[(methylamino)carbonyl] oxy}ethanimidothioate	100.0	S	> 480'	> 480'	> 480'	> 480'	> 480'	> 480'	> 480'	> 480'	> 480'	> 480'

Degradation Ratings

For inquiries about chemical testing, please contact anselltesting@ansell.com.

Material				PVC/Nitrile	PVC/Nitrile	PVA	Nitrile	Butyl	Nitrile /Neoprene	Nitrile	Nitrile	Nitrile /Neoprene	Nitrile
Thickness (mm)				NA mm NA mil	N.A.	N.A.	0.56 mm 22 mil	0.35 mm 14 mil	0.38 mm 15 mil	N.A.	0.125 mm 4.9 mil	0.20 mm 7.9 mil	0.11 mm 4.3 mil
Brand				AlphaTec®	AlphaTec®	AlphaTec®	AlphaTec® Solvex®	AlphaTec®	AlphaTec®	AlphaTec®	TouchNTuff®	MICROFLEX®	MICROFLEX®
Product Group				04-002.003	04-004.005	15-554	37-185.165 /58-008	38-001	53-001	58-530.535	92-600.605 . 93-300.700	93-260.360	93-743.843 /94-243. Supreno SE SU-690
CAS	Chemical Name	%	PS										
3483-12-3	(R,R)-1,4-Dimercapto-2,3-butanediol	100.0	S										
16752-77-5	(E,Z)-methyl N-{[(methylamino)carbonyl] oxy}ethanimidothioate	100.0	S			E	E		E	E		E	E

Combined Chart

The permeation breakthrough times present in this chart were evaluated according to the EN ISO 374 standard. The letters used in this chart correspond to the degradation ratings whereas the colors represent the permeation breakthrough time levels (see legend page for more information).
For inquiries about chemical testing, please contact anselltesting@ansell.com.

Material				PVC/Nitrile	PVC/Nitrile	PVA	Nitrile	Butyl	Nitrile /Neoprene	Nitrile	Nitrile	Nitrile /Neoprene	Nitrile
Thickness (mm)				NA mm NA mil	N.A.	N.A.	0.56 mm 22 mil	0.35 mm 14 mil	0.38 mm 15 mil	N.A.	0.125 mm 4.9 mil	0.20 mm 7.9 mil	0.11 mm 4.3 mil
Brand				AlphaTec®	AlphaTec®	AlphaTec®	AlphaTec® Solvex®	AlphaTec®	AlphaTec®	AlphaTec®	TouchNTuff®	MICROFLEX®	MICROFLEX®
Product Group				04-002.003	04-004.005	15-554	37-185.165 /58-008	38-001	53-001	58-530.535	92-600.605 . 93-300.700	93-260.360	93-743.843 /94-243. Supreno SE SU-690
CAS	Chemical Name	%	PS										
3483-12-3	(R,R)-1,4-Dimercapto-2,3-butanediol	100.0	S										
16752-77-5	(E,Z)-methyl N-{[(methylamino)carbonyl] oxy}ethanimidothioate	100.0	S			E	E		E	E		E	E

Permeation Breakthrough Times - $BT_{1.0}$

Colored cells with numbers and the symbol C correspond to experimentally determined data generated by an external accredited laboratory. Colored cells with numbers and the symbol V correspond to experimentally determined data generated by an internal accredited laboratory. Colored cells without numbers correspond to estimations
For inquiries about chemical testing, please contact anselltesting@ansell.com.

Brand				AlphaTec®	AlphaTec®	AlphaTec®	AlphaTec®
Product Group				2300	3000	4000	5000
CAS	Chemical Name	%	PS				
3483-12-3	(R,R)-1,4-Dimercapto-2,3-butanediol	100.0	S				
16752-77-5	(E,Z)-methyl N-{[(methylamino)carbonyl]oxy}ethanimidothioate	100.0	S				