

Monotaro

CHEMICAL GUARDIAN

June 11, 2018



Legend

Permeation Breakthrough Times (min)		
<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 times evaluate the time necessary for a chemical to pass through a glove material.

Disclaimer

Recommendations are based on extrapolations from laboratory test results and information regarding the composition of chemicals and may not adequately represent specific conditions of end use. Synergistic effects of mixing chemicals have not been accounted for. For these reasons, and because Ansell has no detailed knowledge of or control over the conditions of end use, any recommendation must be advisory only and Ansell fully disclaims any liability including warranties related to any statement contained herein.

Permeation Breakthrough Times

The permeation breakthrough times present in this chart were evaluated according to the ASTM F739 standard.

Material				Natural Rubber	Neoprene	Nitrile	Nitrile	Nitrile	PVC	Viton Butyl
Thickness (mm)				0.75	N.A.	0.56	N.A.	N.A.	N.A.	0.2
Product Name / Style				Extra	Scorpio	Solvex	AlphaTec	Sol-Knit	Snorkel	ChemTek
Type	CAS	Chemical name	%	87-950.955	09-430.922.924.928	37-185.186.165	58-530.535	39-122.124	04-414	38-612
sgl	67-64-1	Acetone	100	10-30'	<10'	<10'	<10'	<10'	<5'	93'
sgl	75-05-8	Acetonitrile	100	10-30'	10-30'	30'	<10'	<10'	<10'	70'
sgl	75-15-0	Carbon disulfide	100	<10'	<10'	30'	10-30'	<10'	<5'	138'
sgl	109-89-7	Diethylamine	100	<10'	10-30'	51'	10-30'	<10'	10-30'	19'
sgl	141-78-6	Ethyl acetate	100	10-30'	10-30'	10-30'	10-30'	<10'	<10'	10'
sgl	67-56-1	Methyl alcohol	20	240-480'	>480'	>480'	>480'	>480'	>480'	>480'
sgl	75-09-2	Methylene chloride	100	<10'	<10'	<10'	<10'	<10'	<10'	29'
sgl	1310-73-2	Sodium Hydroxide	40	>480'	>480'	>480'	>480'	>480'	>480'	>480'
sgl	7664-93-9	Sulphuric acid	49	>480'	>480'	>360'	>480'	>480'	>360'	>480'
sgl	109-99-9	Tetrahydrofuran	100	<10'	<10'	10-30'	<10'	<10'	<10'	10'
sgl	108-88-3	Toluene	100	<10'	<10'	34'	10-30'	<10'	<10'	313'
sgl	110-54-3	n-Hexane	100	<10'	30-60'	>480'	>480'	>480'	<10'	>480'