

pdf 2

## CHEMICAL GUARDIAN

November 09, 2016

Ansell **GUARDIAN**<sup>®</sup>  
Global Safety Services



## 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

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

Permeation breakthrough times evaluate the time necessary for a chemical to pass through a glove material.

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

## 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.

Combined Chart

The permeation breakthrough times present in this chart were evaluated according to the EN374 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).

Material							Butyl	LLDPE	Natural Rubber	Natural Rubber	Neoprene	Neoprene	Neoprene	Neoprene	Nitrile
Thickness (mm)							0.35	0.062	0.74	N.A.	0.13	N.A.	N.A.	N.A.	0.12
Product Name / Style					PVA	ChemTek	Barrier	Orange Heavyweight	Gladiator	NeoTouch	Scorpio	Scorpio	Scorpio	Scorpio	TouchNTuff
Type	CAS	Chemical name	%	15-555	38-514	02-100	87-208	16-650	25-101.201	08-352.354	09-022	09-430.922.924.928	92-500.600.605 / 93-250.300.700		
sgl	67-64-1	Acetone	100	LawrenHP@1	LawrenHP@1	LawrenHP@1	LawrenHP@1	LawrenHP@1	LawrenHP@1	LawrenHP@1	LawrenHP@1	LawrenHP@1	LawrenHP@1	LawrenHP@1	LawrenHP@1

# Combined Chart

The permeation breakthrough times present in this chart were evaluated according to the EN374 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).

Material				Nitrile	Nitrile	PVA	PVC	Viton Butyl
Thickness (mm)				N.A.	N.A.	N.A.	N.A.	0.2
Product Name / Style				AlphaTec	AlphaTec	PVA	Snorkel	ChemTek
Type	CAS	Chemical name	%	58-435	58-530.535	15-554	04-414	38-612
sgl	67-64-1	Acetone	100	LawrenHP@1	LawrenHP@1	LawrenHP@1	LawrenHP@1	LawrenHP@1

# Permeation Breakthrough Times

The permeation breakthrough times present in this chart were evaluated according to the EN374 standard.

Material						Butyl	LLDPE	Natural Rubber	Natural Rubber	Neoprene	Neoprene	Neoprene	Neoprene	Nitrile
Thickness (mm)						0.35	0.062	0.74	N.A.	0.13	N.A.	N.A.	N.A.	0.12
Product Name / Style				PVA	ChemTek	Barrier	Orange Heavyweight	Gladiator	NeoTouch	Scorpio	Scorpio	Scorpio	Scorpio	TouchNTuff
Type	CAS	Chemical name	%	15-555	38-514	02-100	87-208	16-650	25-101.201	08-352.354	09-022	09-430.922.924.928	92-500.600.605 / 93-250.300.700	
sgl	67-64-1	Acetone	100		>480'	>480'	10-30'	<5'	<1'	<10'	>480'	>480'	<10'	

# Permeation Breakthrough Times

The permeation breakthrough times present in this chart were evaluated according to the EN374 standard.

Material				Nitrile	Nitrile	PVA	PVC	Viton Butyl
Thickness (mm)				N.A.	N.A.	N.A.	N.A.	0.2
Product Name / Style				AlphaTec	AlphaTec	PVA	Snorkel	ChemTek
Type	CAS	Chemical name	%	58-435	58-530.535	15-554	04-414	38-612
sgl	67-64-1	Acetone	100	<100'	<100'		<5'	>480'

Degradation Ratings

Material					Butyl	LLDPE	Natural Rubber	Natural Rubber	Neoprene	Neoprene	Neoprene	Neoprene	Nitrile
Thickness (mm)					0.35	0.062	0.74	N.A.	0.13	N.A.	N.A.	N.A.	0.12
Product Name / Style				PVA	ChemTek	Barrier	Orange Heavyweight	Gladiator	NeoTouch	Scorpio	Scorpio	Scorpio	TouchNTuff
Type	CAS	Chemical name	%	15-555	38-514	02-100	87-208	16-650	25-101.201	08-352.354	09-022	09-430.922.924.928	92-500.600.605 / 93-250.300.700
sgl	67-64-1	Acetone	100	LawrenHP@1	LawrenHP@1	LawrenHP@1	LawrenHP@1	LawrenHP@1	LawrenHP@1	LawrenHP@1	LawrenHP@1	LawrenHP@1	LawrenHP@1

# Degradation Ratings

Material				Nitrile	Nitrile	PVA	PVC	Viton Butyl
Thickness (mm)				N.A.	N.A.	N.A.	N.A.	0.2
Product Name / Style				AlphaTec	AlphaTec	PVA	Snorkel	ChemTek
Type	CAS	Chemical name	%	58-435	58-530.535	15-554	04-414	38-612
sgl	67-64-1	Acetone	100	LawrenHP@1	LawrenHP@1	LawrenHP@1	LawrenHP@1	LawrenHP@1