



New Pig

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1-800-HOT-HOGS® (468-4647)

Chemical Compatibility Guide for: TOPCHEM® 345 PVA Gloves

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CHEMICAL RESISTANCE GUIDE

Glove Name - Polymer Chemical Name CAS Number	Overall Chemical Protection Rating	Permeation		Degradation				Puncture Rating
		Breakthrough Time Mins	Rate $\mu\text{g}/\text{cm}^2/\text{min}$	5	30	60	240	
TOPCHEM® / 345 - Polyvinyl Alcohol (PVA)								
1,1,1-Trichloroethane 71-55-6	99%	>480	NRD	NT	NT	NT	NT	
1,2 - dichloroethane 107-06-2	99%	2	>480	NRD	NT	P	P	
2,2,2-Trifluoroethanol 75-89-8	99%	>480	NRD	NT	NT	NT	NT	
Acetone 67-64-1	99.5%	4	285	>30	NT	NT	G	F 3
Acetonitrile 75-05-8	99.5%	3	158	>2	NT	NT	E	G 2
Benzene 71-43-2	99.9%	2	>480	NRD	F	F	F	NT
Butyl Acetate 123-86-4	99%	>480	NRD	NT	NT	NT	NT	
Carbon disulfide 75-15-0	99%	5	242	4	NT	NT	G	G
Carbon tetrachloride 56-23-5	99.9%	>480	NRD	NT	NT	NT	NT	
Chloroform 67-66-3	99%	>480	NRD	NT	NT	NT	NT	
Cyclohexane 110-82-7	99%	5	>480	NRD	NT	NT	E	E
Dichloromethane (Methylene Chloride) 75-09-2	99.6%	0	200	4	P	NT	P	NT 3
Diethylamine 109-89-7	99%	3	76	55	NT	E	G	NT 2
Ethyl acetate 141-78-6	99%	2	>480	NRD	F	NT	F	NT 3
Ethyl benzene 100-41-4	99%	2	>480	NRD	NT	F	F	NT
Furfural 98-01-1	99%	>480	NRD	NT	NT	NT	NT	
Heptane 142-82-5	99%	5	>480	NRD	NT	NT	E	E 4
Hexane 110-54-3	95%	5	>480	NRD	NT	NT	NT	E
Hydrochloric Acid 7647-01-0	37%	>480	NRD	NT	NT	NT	NT	
Iodomethane (Methyl Iodide) 74-88-4	99%	228	>2	NT	NT	NT	NT	
Methanol 67-56-1	99.8%	2	59	4.5	NT	NT	E	E 3
Methyl Ethyl Ketone (2-Butanone) 78-93-3	99%	5	>480	NRD	G	G	G	G 2
N,N-Dimethylacetamide 127-19-5	99%	58	>56	NT	NT	NT	NT	

Pentane 109-66-0	99%	3	>480	NRD	NT	NT	E	P	
Phenol 108-95-2	85%	1	363	120	NT	NT	P	P	
Sodium Hydroxide 1310-73-2	50%	5	>480	NRD	NT	NT	E	E	4
Sulfuric acid 7664-93-9	95-98%	0	>480	NRD	P	NT	P	NT	2
Tetrachloroethylene (Perchloroethylene) 127-18-4	99%		201	NRD	NT	NT	NT	NT	
Tetrahydrofuran 109-99-9	99%	4	>480	NRD	NT	NT	E	P	2
Toluene 108-88-3	99%	4	>480	NRD	NT	NT	E	P	3
Trichloroethylene 79-01-6	99%		>480	NRD	NT	NT	NT	NT	
Xylene 1330-20-7	98%	3	>480	NRD	NT	E	E	P	2

Overall Chemical Protection Rating

Protection rating is determined by taking into account the effects of both permeation and degradation in an attempt to provide users with an overall protection guideline when using our glove products against specific chemicals

- 0 For Splash Protection Only, change glove immediately when chemical contacts glove
- 1 Change glove after 5 to 30 minutes of exposure to chemical
- 2 Change glove after 31 to 60 minutes of exposure to chemical
- 3 Change glove after 61 to 180 minutes of exposure to chemical
- 4 Change glove after 181 to 300 minutes of exposure to chemical
- 5 Change glove after 301 to 480 minutes of exposure to chemical

ASTM F739 Permeation Key

NT = Not Tested
 ND = None Detected
 NRD = No Rate Determined
 µg/cm²/min = Micrograms per square centimeter per minute
 > Greater than
 < Less than

ASTM D471 Degradation Key

Weight Change	Performance Rating
0 - 10%	Excellent
11 - 20%	Good
21 - 30%	Fair
Over 30%	Poor

ANSI/ISEA 105-2000 Puncture Degradation Key

- Level 0** greater than 80% Change in puncture
- Level 1** less than or equal to 80% Change in puncture
- Level 2** less than or equal to 60% Change in puncture
- Level 3** less than or equal to 40% Change in puncture
- Level 4** less than or equal to 20% Change in puncture

The chemical test data and overall chemical protection rating should not be used as the absolute basis for glove selection. Actual in-use conditions may vary glove performance from the controlled conditions of laboratory tests. Factors other than chemical contact time, such as concentration and temperature, glove thickness and glove reuse, may also affect performance. Other glove requirements, such as length, dexterity, cut, abrasion, puncture and snag resistance, or glove grip also need to be considered in making your final selection.