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## Chemical Resistance Guide

Glove Name - Polymer Chemical Name CAS Number	Overall Chemical Protection Conc. Rating	Permeation		Degradation				Puncture Rating
		Breakthrough Time Mins	Rate µg/cm <sup>2</sup> /min	5	30	60	240	
STANSOLV® / A-15 - nitrile								
1,1,1 Trichloroethane 71-55-6	97%	1	75.3	24.3	G	P	P	P
4,4-Methylenebisbenzeneamine(MDA) 5% in unknown solvent Mixture			<15	14.7	NT	NT	NT	NT
Acetic Acid (Glacial) 64-19-7	99.7%		92.8	192.4	NT	NT	NT	NT
Butyl Acetate 123-86-4	99%	2	55.1	180.0	E	E	E	P
Diethylamine 109-89-7	98%	1	16*	2866.7	E	G	G	F
Dimethylformamide 68-12-2	99%	0	<15*	>500	P	P	P	P
Isophorone diisocyanate 4098-71-9	98%		>480*	ND	NT	NT	NT	NT
Methanol 67-56-1	99%	2	49.7*	14.7	E	E	E	E
Petroleum Ether (VM&P Naphtha) 8032-32-4			>480	ND	NT	NT	NT	NT
Tert-Butyl Methyl Ether 1634-04-4	98%	4	238*	25.4	E	E	E	E
Tetrachloroethylene (Perchloroethylene) 127-18-4	99%	4	259.7*	1.2	E	E	E	E
Toluene 108-88-3	98+%	1	18.3*	183.3	E	G	F	P
Trichloroethylene 79-01-6	99+%		11.7	176.7	NT	NT	NT	NT

### 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/cm<sup>2</sup>/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

\*Non -Normalized Breakthrough.

**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.**

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