

APPENDIX 5-B: GLOVE SELECTION CHART

chemical tested	nitrile	neoprene	natural rubber	pvc	4mil silver shield	9mil vitron*	17mil butyl*
ACETALDEHYDE	NT	E	E	NT	G	NR	E
ACETIC ACID 50%	E	E	E	E	NT	NT	NT
ACETIC ACID GLACIAL	NT	NT	NT	NT	NT	NT	NT
ACETONE	P	E	E	P	G	P	E
ACETONITRILE	NT	E	NT	NT	E	ID	E
ACYLONITRILE	P	G	NT	NT			
AMMONIUM HYDROXIDE 29%	E	E	E	E	NT	NT	NT
ANILINE	P	E	E	G	E	P	E
AROCLOR	NT	NT	NT	NT			
BENZALDEHYDE	E	F	F	G			
BENZENE	P	NT	NT	NT	E	G	P
BENZENE CHLORIDE	NT	NT	NT	NT			
BIS(2-HYDROXYETHYL) AMINE	E	E	E	E			
BROMINE		G	G	G			
BUTANE		E	P	P			
2-BUTONE	NT	G	G	NT			
2-BUTOXYETHANOL	E	E	E	NT			
BUTYL ACETATE	F	E	NT	NT	G	NR	F
BUTYL CELLOSOLVE	E	E	E	NT			
BUTYLALDEHYDE		G	P	G			
CALCIUM HYPOCHLORITE	G	G	P	G			
CARBOLIC ACID	NT	E	E	NT			
CARBON DICHLORIDE	G	NT	NT	NT			
CARBON DISULFIDE	F	NT	NT	NT	G	G	P
CARBON TETRACHLORIDE	G	P	NT	NT	G	E	P
CELLOSOLVE	E	E	E	NT			
CELLOSOLVE ACETATE	F	E	G	NT			
CHLORINE		G	G	G			
CHLOROACETONE		E	F	P			
CHLOROENZENE	NT	NT	NT	NT	E	E	P
CHLOROETHANE	P	P	NT	NT			
CHLOROFORM	NT	P	NT	NT	P	E	P
CHLORONAPHTHALENE					E	E	NR
CHROMIC ACID 50%	E	NT	NT	NT			
CUMENE	G	F	NT	NT			
CYCLOHEANONE					G	E	E
CYCLOHEXANE	E	E	NT	NT	E	E	P
CYCLOHEXANOL					G	E	E
DIAMINE	E	E	E	E			
DIBENZYL ETHER		G	F	P			
DIBUTYL PHTHALATE		G	F	P	G	E	E
1,2-DICHLOROENZENE	NT	NT	NT	NT			
1,3-DICHLOROENZENE	P	NT	TN	NT			
DICHLORODIFLUOROMETHANE	NT	NT	NT	NT			
1,2-DICHLOROETHANE	P	P	NT	NT	G	G	F
DICHLOROMETHANE	NT	F	NT	NT			
DIETHANOLAMINE	E	E	E	E			
DIETHANOLAMINE		E	F	E			
1,4-DIETHYLENE OXIDE	NT	NT	NT	NT			

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DIMETHYL ACETAMIDE	P	G	F	NT			
DIMETHYL FORMAMIDE	NT	E	E	NT	E	P	E
DIMETHYL SULFOXIDE (DMSO)	G	E	E	G	G	F	E
1,4-DIOXANE	NT	NT	NT	NT	E	P	E
DIVINYL BENZENE					E	G	F
ETHANOL	E	E	E	E			
2-ETHOXYETHANOL	E	E	E	NT			
2-ETHOXYETHYL ACETATE	F	G	G	NT			
ETHYL ACETATE	NT	G	NT	NT	G	P	G
ETHYL ALCOHOL	E	E	E	E			
ETHYL ETHER	E	E	NT	NT	G	P	P
ETHYLENE DICCHLORIDE	P	P	NT	NT			
ETHYLENE GYCOL	E	E	E	E			
ETHYLENE GYCOL MONOETHYL	F	G	G	NT			
ETHER ACETATE							
ETHYLENE GYCOL MONOETHYLACETATE	E	E	E	NT			
ETHYLENE OXIDE	NT	NT	NT	NT			
ETHYLENE TRICHLORIDE		P	P	P			
FLUORINE		G	G	G			
FORMALDEHYDE 37%	E	E	E	G	G	E	E
FORMALIN SOLUTION	E	E	E	G			
FREON 12	NT	NT	NT	NT			
FREON TF	E	E	NT	NT			
FURFURAL	P	F	NT	NT			
GASOLINE	E	E	NT	NT			
GLUTARALDEHYDE					E	E	E
GLYCEROL	E	G	G	E			
HEPTANE	E	E	NT	NT			
HEXANE	E	E	NT	NT	G	E	NR
HYDRAZINE	E	E	E	E	G	P	E
HYDROBROMIC		E	G	E			
HYDROCHLORIC ACID 37%	E	E	E	E	G	NR	E
HYDROFLUROIC ACID 48%	E	E	E	E	G	G	F
HYDROGEN PEROXIDE	G	G	G	E			
IODINE		G	G	G			
ISOAMYL ACETATE	NT	NT	NT	NT			
ISOBUTYL ALCOHOL	E	E	NT	NT			
ISOPROPANOL	E	E	E	E			
ISOPROPYL ALCOHOL	E	E	E	E			
ISOPROPYL BENZENE	E	F	NT	NT			
KEROSENE	E	E	NT	NT			
M-CRESOL (3-CRESOL)	F	E	E	E			
METHANE DICHLORIDE	NT	F	NT	NT			
METHANOL	E	E	E	NT			
METHYL ALCOHOL	E	E	E	NT			
METHYL CELLOSOLVE		E	F	P			
METHYL CHLOROFORM	P	P	NT	NT			
METHYL IODIDE	NT	NT	NT	NT			
METHYL ISOBUTYL KETONE (MIBK)	P	P	NT	NT			
METHYL MERCURY					E		
METHYLAMINE	E	G	G	E	F	E	E

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METHYLENE CHLORIDE	G	F	F	F			
MINERAL SPIRITS	E	E	NT	NT			
M-METHYLPHENOL	F	E	E	E			
MONOETHANOLAMINE		E	F	E			
MORPHOLINE		E	F	E	E	F	E
MURIATIC ACID	E	E	E	E			
NAPHTHA	E	E	NT	NT			
NITRIC ACID 50%	G	E	E	E	E	G	F
NITROBENZENE	P	G	NT	NT	E	E	E
NITROPROPANE					G	P	G
N-METHYL-2-PYRROLIDONE	P	G	NT	NT			
N-PENTANE					G	E	NR
O-CHLOROTOLUENE	NT	NT	NT	NT			
OLEIC ACID	E	E	NT	NT			
P-CHLOROTOLUENE	NT	NT	NT	NT			
PENTACHLOROPHENOL					E	E	NR
PENTANE	NT	NT	NT	NT	E	E	P
PERCHLORIC ACID	F	G	F	E			
PERCHLOROETHYLENE	G	NT	NT	NT	E	E	P
PETROLEUM ETHER	E	E	NT	NT			
PHENOL SAT.	NT	E	E	NT	G	E	E
PHOSPHORIC ACID 85%	E	E	E	E			
POLYCHLORINATED BIPHENYLS (PCBS/50%)	NT	NT	NT	NT	E	E	P
POTASSIUM HYDROXIDE 50%	E	E	E	E			
PROPYLENE DICHLORIDE		F	P	P			
P-TERT-BUTYLTOLUENE					E	E	F
PYRIDINE	NT	NT	NT	NT			
RULE 66 SOLVENT	E	E	NT	E			
SODIUM HYDROXIDE 50%	E	E	E	E	E	G	E
SODIUM HYPOCHLORITE	F	P	G	G			
SULFURIC ACID 50%	E	NT	E	E	E	E	G
1,1,2,2-TETRACHLOROETHANE	NT	NT	NT	NT			
TETRACHLOROETHYLENE					G	E	P
1,1,2,2-TETRACHLOROETHYLENE	G	P	NT	NT	G	NR	P
TETRAHYDROFURAN (THF)	P	P	NT	NT	E	P	F
TOLUENE (TOUOL)	P	P	NT	NT	G	E	P
TOLUENE DIISOCYANTE	F	NT	G	F	E	E	E
TOLUOL	P	P	NT	NT			
1,1,1-TRICHLOROETHANE	P	P	NT	NT	G	E	NR
TRICHLOROETHYLENE (TCE)	P	NT	NT	NT	G	G	P
TRICHLOROTRIFLUOROETHANE	E	E	NT	NT			
TRICRESYL PHOSPHATE		F	P	F			
TRIETHANOAMINE (TEA)	E	E	E	E			
VINYL ACETATE	F	G	NT	NT			
VINYL CHLORIDE					E	E	P
XYLOLS	F	F	NT	NT			
XYLENES	F	F	NT	NT	E	E	P
TRINITROTOLUENE		E	P	P			
TURPENTINE	E	E	NT	NT			

APPENDIX 5-B: GLOVE SELECTION CHART

Performance Rating	<u>Weight Change</u>	<u>Penetration Time</u>
E Excellent	0-10%	>8 hours
G Good	11-20%	>6 hours
F Fair	21-30%	< 6 hours
P Poor	>30%	minutes
NT Not Tested		
NR Not Recommended		

References:

Fisher Scientific
Lab Safety Supply
Direct Safety Catalog
"Prudent Practices"
MAPA Professional
Ansell Chemical Resistance Guide