

Appendix 3a.

GLOVE RECOMMENDATIONS FOR COMMON SOLVENTS*

CHEMICAL	BUTYL (30 mil or 0.76 mm)	NATURAL RUBBER (14 mil or 0.36 mm)	NEOPRENE (14 mil or 0.36 mm)	NITRILE (15 mil or 0.38 mm)	VITON (30 mil or 0.76 mm)
Acids & Bases	--	--	E	--	--
Acetone	E	--	G (hw)	--	--
Acetonitrile	E	--	G	F	--
Benzene	--	--	F	F	E
Carbon Tetrachloride	--	--	--	E	E
Chlorobutane	--	--	--	E	--
Chloroform	--	--	F	F	E
Cyclohexane	--	--	G	E	E
Diethyl Ether *	--	--	--	G	--
Dimethyl Formamide	E	E	G	--	--
Dimethyl Sulfoxide	E	--	E	G	--
Dioxane	E	G	G	G	--
Ethanol	E	E	E	E	E
Ethyl Acetate	E	G	--	F	--
Hexanes	--	--	G	E	E
Methanol	E	--	G	G	E
Methylene Chloride *	F	--	F	F	G
Pentane	--	--	G	E	E
2-Propanol	E	E	E (hw)	E	E
Pyridine	F	G	--	--	G
Tetrahydrofuran *	--	--	F	--	--
Toluene	F	--	F	--	E
Xylenes	--	--	G (hw)	--	E

Source: Forsberg and Keith (1989) Chemical Protective Clothing Performance Index Book, J. Wiley & Sons, Inc.

E = Excellent - 8 hour full immersion protection

G = Good - 20 to 60 minute immersion protection

F = Fair - 2 to 19 minute immersion protection

(★) Best glove is PVA (polyvinylalcohol) - special order

(hw) = heavy weight usually 20-30 mil (0.51-0.76 mm) thick

*Adapted from: NIST Materials Science and Engineering Laboratory; Last modified 21-March-2002