



Chemical Compatibility Chart

40 mil LLDPE

SPILLTECH

Our 40 mil polyethylene geomembranes are resistant to a great number and combinations of chemicals. Note that the effect of chemicals on any material is influenced by a number of variable factors such as temperature, concentration, exposed area and duration. Many tests have been performed that use geomembranes and certain specific chemical mixtures. Naturally, however, every mixture of chemicals cannot be tested for, and various criteria may be used to judge performance. Reported performance ratings may not apply to all applications of a given material in the same chemical. Therefore, these ratings are offered as a guide only. This information is provided for reference purposes only and is not intended as a warranty or guarantee. SpillTech assumes no liability in connection with the use of this information.

Medium	Concentration	Resistance at:		Medium	Concentration	Resistance at:	
		20 °C (68 °F)	60 °C (140 °F)			20 °C (68 °F)	60 °C (140 °F)
A							
Acetic acid	100%	S	L	Chloride	sat. sol.	S	S
Acetic acid	10%	S	S	Copper nitrate	sat. sol.	S	S
Acetic acid anhydride	100%	S	L	Copper sulfate	sat. sol.	S	S
Acetone	100%	L	L	Cresylic acid	sat. sol.	L	—
Adipic acid	sat. sol.	S	S	Cyclohexanol	100%	S	S
Allyl alcohol	96%	S	S	Cyclohexanone	100%	S	L
Aluminum chloride	sat. sol.	S	S	D			
Aluminum fluoride	sat. sol.	S	S	Decahydronaphthalene	100%	S	L
Aluminum sulfate	sat. sol.	S	S	Dextrine	sol.	S	S
Alum	sol.	S	S	Diethyl ether	100%	L	—
Ammonia, aqueous	dil. sol.	S	S	Diocetylphthalate	100%	S	L
Ammonia, gaseous dry	100%	S	S	Dioxane	100%	S	S
Ammonia, liquid	100%	S	S	E			
Ammonium chloride	sat. sol.	S	S	Ethanediol	100%	S	S
Ammonium fluoride	sol.	S	S	Ethanol	40%	S	L
Ammonium nitrate	sat. sol.	S	S	Ethyl acetate	100%	S	U
Ammonium sulfate	sat. sol.	S	S	Ethylene trichloride	100%	U	U
Ammonium sulfide	sol.	S	S	F			
Amyl acetate	100%	S	L	Ferric chloride	sat. sol.	S	S
Amyl alcohol	100%	S	L	Ferric nitrate	sol.	S	S
Aniline	100%	S	L	Ferric sulfate	sat. sol.	S	S
Antimony trichloride	90%	S	S	Ferrous chloride	sat. sol.	S	S
Arsenic acid	sat. sol.	S	S	Ferrous sulfate	sat. sol.	S	S
Aqua regia	HCl-HNO ₃	U	U	Fluorine, gaseous	100%	U	U
B				Fluorosilicic acid	40%	S	S
Barium carbonate	sat. sol.	S	S	Formaldehyde	40%	S	S
Barium chloride	sat. sol.	S	S	Formic acid	50%	S	S
Barium hydroxide	sat. sol.	S	S	Formic acid	98-100%	S	S
Barium sulfate	sat. sol.	S	S	Furfuryl alcohol	100%	S	L
Barium sulfide	sol.	S	S	G			
Benzaldehyde	100%	S	L	Gasoline	—	S	L
Benzene	—	L	L	Glacial acetic acid	96%	S	L
Benzoic acid	sat. sol.	S	S	Glucose	sat. sol.	S	S
Beer	—	S	S	Glycerine	100%	S	S
Borax (sodium tetraborate)	sat. sol.	S	S	Glycol	sol.	S	S
Boric acid	sat. sol.	S	S	H			
Bromine, gaseous dry	100%	U	U	Heptane	100%	S	U
Bromine, liquid	100%	U	U	Hydrobromic acid	50%	S	S
Butane, gaseous	100%	S	S	Hydrobromic acid	100%	S	S
1-Butanol	100%	S	S	Hydrochloric acid	10%	S	S
Butyric acid	100%	S	L	Hydrochloric acid	35%	S	S
C				Hydrocyanic acid	10%	S	S
Calcium carbonate	sat. sol.	S	S	Hydrofluoric acid	4%	S	S
Calcium chloride	sat. sol.	S	S	Hydrofluoric acid	60%	S	L
Calcium chloride	sat. sol.	S	S	Hydrogen	100%	S	S
Calcium nitrate	sat. sol.	S	S	Hydrogen peroxide	30%	S	L
Calcium sulfate	sat. sol.	S	S	Hydrogen peroxide	90%	S	U
Calcium sulfide	dil. sol.	L	L	Hydrogen sulfide, gaseous	100%	S	S
Carbon dioxide, gaseous dry	100%	S	S	L			
Carbon disulfide	100%	L	U	Lactic acid	100%	S	S
Carbon monoxide	100%	S	S	Lead acetate	sat. sol.	S	—
Chloroacetic acid	sol.	S	S	M			
Carbon tetrachloride	100%	L	U	Magnesium carbonate	sat. sol.	S	S
Chlorine, aqueous solution	sat. sol.	L	U	Magnesium chloride	sat. sol.	S	S
Chlorine, gaseous dry	100%	L	U				
Chloroform	100%	U	U				
Chromic acid	20%	S	L				
Chromic acid	50%	S	L				
Citric acid	sat. sol.	S	S				

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