

Chemical Resistance (cont.)

Chemical	Concentration	Conditions	
		20°C 68°F	60°C 140°F
Hydrofluoric acid	40% aq. soln	1	4
Hydrofluoric acid	60% aq. soln	5	5
Hydrofluoric acid	conc.	5	5
Hydrogen		1	1
Hydrogen bromide anhydrous		1	4
Hydrogen chloride anhydrous		1	4
Hydrogen fluoride		1	4
Hydrogen peroxide	3% (10 vol)	1	4
Hydrogen peroxide	12%(40 vol)	1	4
Hydrogen peroxide	30% (100 vol)	1	4
Hydrogen peroxide	90% and above	1	4
Hydrogen sulfite		1	4
Lodine	soln in potassium iodide	4	4
Lodine	iodide	5	5
Lacquer solvents		3	5
Lactic acid	10%	1	4
Lactic acid	100%	5	5
Lactic acid		1	4
Lauryl alcohol		1	1
Lead salts		1	1
Magnesium salts		1	1
Manganese sulphate	conc. soln	1	1
Mercuric chloride		5	5
Methyl chloride		5	5
Methyl ethyl ketone		5	5
Methylene chloride		5	5
Milk		1	4
Mineral oils		2	2
Mixed acids (sulphuric/nitric)	various proportions	4	5
Molasses		1	1
Naphtha		5	5
Naphthalene		5	5
Nitric acid	10%	1	4
Nitric acid	25%	1	4
Nitric acid	50%	1	3
Nitric acid	70%	3	5
Nitric acid	95%	5	5
Nitrobenzene		5	5
Nitrogen fertilizers		1	4
Nitrous fumes	moist	4	5
Oleic acid		1	4
Oxalic acid		1	4
Oxygen		1	1
Ozon		1	4
Palmitic acid		1	4
Paraffin		3	4
Petrol		2	2
Petrol benzene mixture	80:20:00	5	5
Phenol		4	5
Phosphoric acid	20% aq. soln	1	1
Phosphoric acid	30% aq. soln	1	1
Phosphoric developers	30% aq. soln	1	1

Chemical	Concentration	Conditions	
		20°C 68°F	60°C 140°F
Photographic emulsions		1	1
Photographic fixing soln		1	1
Picric acid	1% w/w in water	1	1
Picric acid	10% w/w in alcohol	1	4
Potassium hydroxide	1% aq. soln	1	1
Potassium hydroxide	10 aq. soln	1	1
Potassium hydroxide	conc aq. soln	1	5
Potassium salts		1	1
Propane		2	2
Propylene dichlorid		5	5
Salicylic acid		4	4
Sea water		1	1
Soap solution		1	4
Sodium hydroxide	1% aq. soln	1	4
Sodium hydroxide	10% aq. soln	1	3
Sodium hydroxide	40% aq. soln	1	5
Sodium hydroxide	conc aq. soln	1	5
Sodium hypochlorid	15% act. cl.	1	3
Sodium salts		1	1
Sulphur dioxide	dry	1	1
Sulphur dioxide	moist	4	5
Sulphur dioxide	liquid	4	5
Sulphuric acid	10%	1	1
Sulphuric acid	45%	1	1
Sulphuric acid	50%	1	3
Sulphuric acid	60%	3	3
Sulphuric acid	98%	3	3
Sulphuric acid	fuming	5	5
Sulphurous acid	30%	1	4
Tallow		1	4
Tannic acid		1	4
Tanning extracts		1	4
Tartaric acids		1	4
Tetraethyl lead		1	4
Tetrahydrofuran		5	5
Tetralin		5	5
Toluene		5	5
Transformer oil		2	5
Trichloroethane		5	5
Triethanolamine		1	1
Trichlorethylene		5	5
Triethylamine		4	4
Turpentine		4	4
Urea		1	4
Vegetable oils		1	4
Vinegar		1	4
Vinyl acetate		5	5
Water		1	1
Wetting agents		1	1
Wines ans spirits	all conc.	1	4
Xylene		5	5
Zink salts		1	1

Legend:

- 1 Satisfactory
- 2 Recommended for the service and conditions shown for oil hose.
- 3 The material may be considered for use when alternative materials are unsatisfactory and when limited life is acceptable.
- 4 When PVC is to be used with such chemicals, full-scale trials under realistic conditions are particularly necessary.
- 5 Unsatisfactory