

Chemical Resistance Chart

	Polyethylene (LDPE & HDPE)	Polypropylene (PP)	Polyvinyl Chloride (PVC)	PTFE	Polystyrene (PS)	Silicone Rubber	Viton®	EPDM	Nitrile	316 Stainless Steel (V4A)	304 Stainless Steel (V2A)	Hastelloy C22	Aluminium
Acetaldehyde	3	1	4	1	4	2	4	2	4	1	1	1	2
Acetic Acid (Glacial)	4	1	4	1	4	2	4	2	3	1	3	1	2
Acetic Acid (Dilute)	1	2	4	1	1	1	2	1	3	1	3	1	2
Acetone (Dimethyl Ketone)	4	1	4	1	4	4	4	1	4	1	1	1	1
Aluminium Chloride	2	1	1	1	1	2	1	1	1	2	2	1	4
Ammonia (Liquid)	3	1	1	1	2	?	4	?	3	1	2	2	1
Amyl Acetate	3	2	4	1	4	4	4	1	4	1	1	1	1
Benzene	3	4	3	1	4	4	1	4	4	2	2	2	2
Calcium Hypochlorite	1	1	2	1	1	2	1	1	3	2	3	2	4
Carbon Tetrachloride	4	4	4	1	4	4	1	4	4	2	2	1	4
Chloroform (Trichloromethane)	3	3	4	1	4	4	1	4	4	1	1	1	2
Citric Acid	4	1	2	1	1	1	1	1	1	1	2	1	3
Cod Liver Oil	?	1	1	1	2	2	1	1	1	1	1	1	1
Cupric Acid	2	1	1	1	?	1	1	?	2	2	4	1	4
Cyclohexane	2	4	4	1	2	4	1	4	2	1	1	2	1
Cyclohexanone	4	4	4	1	4	4	4	2	4	1	1	1	1
Diesel	3	1	1	1	2	4	1	4	1	1	1	2	1
Diethylamine	4	1	4	4	?	2	1	3	3	1	1	1	2
Epsom Salts (Magnesium Sulfate)	1	1	1	1	?	1	1	1	1	2	1	2	2
Ethanol (Ethyl alcohol)	1	1	3	1	1	2	1	1	3	1	1	1	2
Ethanolamine	?	4	4	1	?	2	4	2	2	1	1	2	2
Ether (Ethyl Ether)	4	4	4	1	4	4	3	3	4	1	1	2	2
Ethylene Glycol	4	1	1	1	1	4	1	1	1	2	2	1	2
Ethylene Oxide	1	4	4	1	4	4	4	3	4	2	2	1	4
Ferrous Sulfate	1	1	1	1	1	1	1	1	1	2	2	2	2
Formic Acid (Methanoic Acid)	4	1	1	1	2	2	3	2	3	1	2	1	1
Gasoline	3	1	1	2	4	4	1	4	1	1	1	1	4
Hexane	4	2	2	1	4	4	1	4	1	1	1	1	1
Hydrochloric Acid (20%)	1	2	1	1	1	4	1	1	?	4	4	1	4
Hydrochloric Acid (Conc.)	?	2	4	1	2	4	1	1	4	4	4	1	4
Hydrofluoric Acid (20%)	1	1	2	1	4	4	1	1	4	4	4	2	4
Hydrogen Peroxide (10%)	1	1	1	1	1	1	1	1	4	2	2	1	1
Hydrogen Peroxide (90%)	3	2	1	1	2	2	1	1	4	1	2	1	1
Isopropanol (Isopropyl Alcohol)	1	1	1	1	1	1	1	1	?	1	1	?	?
Kerosene	3	2	1	1	2	4	1	4	1	1	1	2	1
Magnesium Chloride	1	1	2	1	?	1	1	1	1	4	4	2	4
Methanol (Methyl alcohol)	1	1	1	1	2	2	1	1	1	1	1	1	1
Methyl Ethyl Ketone	2	2	4	1	4	4	4	1	4	1	1	1	2
Milk	1	2	1	1	1	1	1	1	1	1	1	1	1
Naphtha	1	2	1	2	3	?	4	4	2	1	1	1	2
Nitric Acid (10%)	2	1	1	1	2	3	1	2	4	1	1	1	1
Nitric Acid (Conc.)	3	4	2	1	4	4	1	4	4	1	1	2	4
Nitrobenzene	3	2	4	1	?	4	2	4	4	2	2	4	2
Paraffin	2	1	2	1	2	?	2	1	2	1	1	2	1
Phenol (Carbolic Acid)	4	2	4	1	4	4	1	2	4	2	2	1	1
Phosphoric Acid (Conc)	2	1	2	1	1	4	1	2	4	4	3	1	3
Picric Acid	1	2	4	1	?	4	1	1	3	2	2	2	3
Potassium Chloride	1	1	1	1	1	1	1	1	1	1	2	1	4
Potassium Dichromate	1	1	1	1	?	1	1	1	1	2	2	2	2
Pyridine	2	1	4	1	4	4	4	2	4	1	1	2	2
Sodium Carbonate	2	1	1	1	1	1	1	1	1	1	1	1	4
Sodium Fluoride	1	1	1	1	2	?	1	1	1	4	4	1	2
Sodium Hydroxide (Caustic Soda)	4	1	1	1	2	1	2	1	4	2	3	1	4
Sodium Hypochlorite 20%	1	1	1	1	2	2	1	2	2	3	3	1	4
Starch	2	1	1	1	1	1	1	1	1	1	1	1	1
Sulfuric Acid (10%)	1	1	1	1	1	4	1	2	2	3	4	2	4
Sulfuric Acid (Hot Conc.)	4	4	4	1	4	4	1	4	4	3	4	4	4
Tetrachloroethane	?	3	3	1	?	4	1	4	4	1	2	1	3
Tetrahydrofuran (THF)	3	3	4	1	4	4	4	3	4	1	1	1	?
Toluene (Methylbenzene)	3	3	4	1	4	4	3	4	4	1	1	1	1
Xylene (Dimethylbenzene)	2	2	4	1	4	4	4	4	4	2	2	1	1

Key

1 = Excellent 2 = Good 3 = Fair 4 = Poor, not recommended for prolonged contact ? = No data

Important Notice: Sampling Systems do not accept any responsibility for any errors in this table. It is the responsibility of the end user to carry out their own compatibility tests.

Information