

Chemical Resistance Chart

Reagent	Concentration	HDPE		PP		Polyester	PVC	316SS	Nylon 66	Acetal
		70°	140°	70°	140°					
Naphtha ★■	-	B	C	-	-	A	A	A	-	-
Naphthalene ★■	-	B	-	A	A	A	C	A	-	-
Nickel Chloride	Concentrated	A	A	A	A	A	A	C	-	-
Nickel Nitrate	Saturated	A	A	A	A	A	A	B	-	-
Nickel Sulphate	Concentrated	A	A	A	A	A	A	B	-	-
Nicotine ★	Dilute	A	A	A	A	-	A	-	-	-
Nitric Acid	0-30%	A	A	C	C	C	A	A	C	C
Nitric Acid ●	30-50&	A	B	C	C	C	B	A	C	C
Nitric Acid ●	70%	A	B	C	C	C	C	A	C	C
Nitric Acid ●	95-98%	C	C	C	C	C	C	A	C	C
Nitrobenzene ★■	100%	C	C	C	C	C	C	A	-	-
n-Octane	-	A	A	-	-	-	-	-	-	-
Oleic Acid	-	B	C	A	B	A	C	B	-	-
Oxalic Acid ★	Saturated	A	A	A	B	A	A	B	-	-
Perchloroethylene ★	-	C	C	-	-	-	C	A	A	-
Phenol	-	-	-	-	-	-	-	-	C	-
Phosphoric Acid	95%	A	A	A	A	A	B	B	C	-
Photographic Solutions	-	A	A	A	A	A	A	A	-	-
Plating Solutions ★ Brass	-	A	A	A	A	-	A	A	-	-
Cadium	-	A	A	A	A	-	A	A	-	-
Chromium	-	A	A	A	A	-	A	C	-	-
Copper	-	A	A	A	A	-	A	A	-	-
Gold	-	A	A	A	A	-	A	A	-	-
Indium	-	A	A	A	A	-	A	-	-	-
Lead	-	A	A	A	A	-	A	C	-	-
Nickel	-	A	A	A	A	-	A	C	-	-
Rhodium	-	A	A	A	A	-	A	A	-	-
Silver	-	A	A	A	A	-	A	C	-	-
Tin	-	A	A	A	A	-	A	C	-	-
Zinc	-	A	A	A	A	-	A	C	-	-
Potassium Bicarbonate	Saturated	A	A	A	A	C	A	B	-	-
Potassium Bromide	Saturated	A	A	A	A	-	A	B	-	-
Potassium Bromate	10%	A	A	A	A	-	A	B	-	-
Potassium Carbonate	-	A	A	A	A	A	A	B	-	-
Potassium Chlorate	Saturated	A	A	A	A	-	A	B	-	-
Potassium Chloride	Saturated	A	A	A	A	A	A	B	-	-
Potassium Chromate	40%	A	A	A	A	-	A	B	-	-
Potassium Cyanide	Saturated	A	A	A	A	-	A	B	-	-
Potassium Dichromate	40%	A	A	A	A	A	A	B	C	-
Potassium	-	-	-	-	-	-	-	-	-	-
Ferri/Ferro Cyanide	Saturated	A	A	A	A	A	A	B	-	-
Potassium Fluoride	-	A	A	A	A	-	A	B	-	-
Potassium Hydroxide	Concentrated	A	A	A	A	C	A	B	A	-
Potassium Nitrate	Saturated	A	A	A	A	A	A	B	B	-
Potassium Perborate	Saturated	A	A	A	A	-	A	B	-	-
Potassium Perchlorate	10%	A	A	A	A	-	A	B	-	-
Potassium Permanganate	20%	A	A	A	A	A	A	B	C	-
Potassium Persulphate	Saturated	A	A	-	-	A	A	B	-	-
Potassium Sulphate	Concentrated	A	A	A	A	A	A	B	-	-
Potassium Sulphide	Concentrated	A	A	A	A	-	A	B	-	-
Potassium Sulphite	Concentrated	A	A	A	A	-	A	B	-	-
Propargyl Alcohol ★	-	A	A	-	-	-	-	-	-	-
n-Propyl Alcohol ★	-	A	A	A	A	-	A	A	-	-
Propylene Dichloride ★■	100%	C	C	C	C	-	A	C	-	-
Propylene Glycol ★	-	A	A	-	-	-	C	B	-	-
Pyridine ★	-	A	-	A	-	-	C	A	A	-

CODES: HDPE - High Density Polyethylene PP - Polypropylene (-) Information not yet available.
(A) Resistant, no indication that serviceability would be impaired. **(B)** Variable resistance, depending on conditions of use.
(C) Unresistant, not recommended for service applications under any conditions.
(★) - Stress-Crack Agent **(■)** - Plasticizer **(●)** - Oxidizer