

Chemical Resistance Chart for Metal

Ambient temperature and maximum concentration apply, unless otherwise noted.



Note 1

	5	10	S1 HB/PW	S2	S4+	SD4i	855	858	BX1	BX2	MX1	MX2	BX5	IBX1	IBX1 RC	HT-S/ S5	HT-T	S7/S7 AR	T7 AR
Hydrofluoric Acid (10%) [HF] @ 50C°	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	1*	1*
Hydrofluoric Acid (10%) [HF]	2	3	3	2	1	2	2	2	2	2	2	2	3	3	3	3	3	1	1
Hydrogen Peroxide (50%) [H2O2]	4	4	4	4	4	4	4	4	4	4	4	4	4	4	4	4	4	2	2
Hydrogen Peroxide (10%) [H2O2]	4	4	4	4	3	4	4	4	4	4	4	4	4	4	4	4	4	1	1
Hydrogen Peroxide (3%) [H2O2]	3	3	3	2	1	2	2	3	2	2	2	2	3	3	3	3	3	1	1
Hydrogen Peroxide (3%) [H2O2] 50C°	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	3	3	4	4	1*	1*
Hydrogen Sulfide (wet) [H2S]	1	2	2	1	1	1	1	1	2	2	1	2	2	3	3	2	2	1	1
I Iso-Octane [C8H18]	1	1	1	1	1	1	1	1	1	1	1	1	1	2	2	1	1	1	1
Isopropyl Alcohol [C3H8O]	1	1	1	1	1	1	1	1	1	1	1	1	1	2	2	1	1	1	1
J Jet Fuel (JP-5)	1	2	1	1	1	1	1	1	1	1	1	1	1	2	2	1	1	1	1
K Kerosene	1	1	1	1	1	1	1	1	1	1	1	1	1	2	2	1	1	1	1
L Lactic Acid (10%) [C3H6O3]	2	3	3	2	1	2	2	2	3	3	3	3	3	4	4	3	3	1	1
Lactic Acid (85%) [C3H6O3] @ 85C°	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	4	4	1*	1*
Lead Acetate [Pb(CH3COO)2]	1	1	2	1	1	1	1	1	1	1	1	1	1	2	2	1	1	1	1
Lime Water [Ca(OH)2/H2O]	1	1	1	1	1	1	1	1	1	1	1	1	1	2	2	1	1	1	1
M Magnesium Bisulfate (dry) [Mg(HSO4)2]	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1
Magnesium Chloride (dry) [MgCl2]	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1
Magnesium Sulfate (dry) [MgSO4]	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1
Maleic Acid (30%) [C4H4O4]	2	2	2	2	1	2	2	2	2	2	2	2	2	3	3	2	2	1	1
Mercuric Chloride (dry) [HgCl2]	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1
Mercury [Hg]	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1
Methane [CH4]	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1
Methanol [CH3OH]	4	4	4	4	3	4	4	4	4	4	4	4	4	4	4	4	4	1	1
Methylamine [CH3NH2]	2	2	3	2	1	2	2	2	2	2	2	2	2	3	3	3	3	2	2
MEK [C4H8O]	4	4	4	4	4	4	4	4	4	4	4	4	4	4	4	4	4	1	1
Methylene Chloride [CH2Cl2]	4	4	4	4	3	4	4	4	4	4	4	4	4	4	4	4	4	2	2
MIBK [C6H12O]	2	3	1	1	2	1	1	1	1	1	1	1	2	2	2	1	1	1	1
Mineral Spirits	1	1	1	1	1	1	1	1	1	1	1	1	1	2	2	1	1	1	1
Monoethanolamine [H2NCH2CH2OH]	3	3	3	3	2	3	3	3	3	3	3	3	3	4	4	3	3	2	2
MTBE	2	2	1	1	1	1	1	1	1	1	1	1	1	2	2	1	1	1	1

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N																				
Naphtha	2	2	1	1	1	1	1	1	1	1	1	1	1	2	2	1	1	1	1	
Nickel Ammonium Sulfate (dry) [NiNH4SO4]	1	1	2	1	1	1	1	1	1	1	1	1	1	2	2	1	1	1	1	
Nickel Chloride (dry) [NiCl2]	1	1	2	1	1	1	1	1	1	1	1	1	1	2	2	1	1	1	1	
Nickel Nitrate (dry) [Ni(NO3)2]	1	1	2	1	1	1	1	1	1	1	1	1	1	2	2	1	1	1	1	
Nickel Sulfate (dry) [NiSO4]	2	2	3	2	1	2	2	2	2	2	2	2	2	3	3	2	3	1	1	
Nitric Acid (40%) [HNO3]	4	4	4	4	3	4	4	4	4	4	4	4	4	4	4	4	4	1	1	
Nitric Acid (40%) [HNO3] @ 50C°	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	4	4	1*	1*	
Nitric Acid (40%) HNO3 @ 50C° Ambient Cure	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	4	4	4	4	2	2	
Nitric Acid (20%) [HNO3]	4	4	4	3	2	3	3	3	3	3	3	3	4	4	4	4	4	1	1	
Nitric Acid (10%) [HNO3]	4	4	4	2	1	2	2	3	2	2	3	2	3	3	3	4	4	1	1	
Nitrogen [N2]	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	
Nitrous Oxide [NO]	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	
O																				
Oleic Acid [C18H34O2]	2	3	3	2	1	2	2	2	2	2	2	2	2	3	3	2	3	1	1	
Oleic Acid [C18H34O2] 50C°	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	1*	1*	
Ozone (0.5 ppm) [O3]	3	4	3	3	2	3	3	3	3	3	3	3	3	4	4	3	3	1	1	
Oleum [fuming H2SO4]	4	4	4	4	2	4	4	4	4	4	4	4	4	4	4	4	4	4	4	
P																				
Palmitic Acid [CH3(CH2)14COOH]	3	4	4	3	2	3	3	3	3	3	3	3	3	4	4	4	4	1	1	
Paraffin wax	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	
Pentane [C5H12]	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	
Phenol (Carbolic Acid) [C6H6O]	4	4	4	4	3	4	4	4	4	4	4	4	4	4	4	4	4	2	2	
Phosphoric Acid (85%) [H3PO4]	4	3	4	3	2	3	3	3	3	3	3	3	4	4	4	4	4	1	1	
Phosphoric Acid (85%) H3PO4 @ 85C°	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	1*	1*	
Phosphoric Acid (50%) [H3PO4]	4	3	4	3	1	3	3	3	3	3	3	3	4	4	4	4	4	1	1	
Phosphoric Acid (30%) [H3PO4]	4	3	4	3	1	3	3	3	3	3	3	3	4	4	4	4	4	1	1	
Phosphoric Acid (10%) [H3PO4]	2	2	1	1	1	1	1	2	2	2	2	2	3	3	3	4	4	1	1	
Pickle Brine (2-4% Acetic Acid)	4	3	4	3	1	3	3	3	3	3	3	3	3	4	4	4	4	1	1	
Potash Alum (dry) [AlK08S2]	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	
Potassium Bicarbonate (dry) [KHCO3]	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	
Potassium Bisulfate (dry) [KHSO4]	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	
Potassium Bromide (30%) [KBr]	1	1	1	1	1	1	1	1	1	1	1	1	1	2	2	1	1	1	1	

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	5	10	S1 HB/PW	S2	S4+	SD4i	855	858	BX1	BX2	MX1	MX2	BX5	IBX1	IBX1 RC	HT-S/ S5	HT-T	S7/S7 AR	T7 AR
Potassium Carbonate (50%) [K2CO3]	1	1	1	1	1	1	1	1	1	1	1	1	1	2	2	1	1	1	1
Potassium Chloride (30%) [KCl]	1	1	1	1	1	1	1	1	1	1	1	1	1	2	2	1	1	1	1
Potassium Cyanide (dry) [KCN]	2	2	2	2	1	2	2	2	2	2	2	2	2	3	3	2	2	1	1
Potassium Dichromate (dry) [K2Cr2O7]	2	2	2	2	1	2	2	2	2	2	2	2	2	3	3	2	2	1	1
Potassium Phosphate Dibasic (dry) [K2HPO4]	3	2	3	2	1	2	2	2	2	2	2	2	2	3	3	2	2	1	1
Potassium Ferricyanide (dry) [K3Fe(CN)6]	2	1	2	1	1	1	1	1	1	1	1	1	1	2	2	1	1	1	1
Potassium Ferrocyanide (dry) [K4Fe(CN)6]	1	1	2	1	1	1	1	1	1	1	1	1	1	2	2	1	1	1	1
Potassium Hydroxide (50%) [KOH]	1	1	2	1	1	1	1	1	1	1	1	1	1	2	2	1	2	1	1
Potassium Hydroxide (10%) [KOH]	1	1	1	1	1	1	1	1	1	1	1	1	1	2	2	1	2	1	1
Potassium Iodide [KI]	1	1	1	1	1	1	1	1	1	1	1	1	1	2	2	1	1	1	1
Potassium Nitrate (dry) [KNO3]	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1
Potassium Permanganate [KMnO4]	3	2	3	2	1	2	2	2	2	2	2	2	2	3	3	3	3	1	1
Propane [C3H8]	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1
Propylene Oxide [C3H6O]	4	3	3	3	2	3	3	3	3	3	3	3	3	4	4	3	3	2	2
S Salt Water [NaCl+H2O+minerals]	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1
Sewage	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1
Silicone Oil	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1
Silver Nitrate [AgNO3]	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1
Skydrol [aircraft hydraulic fluid]	1	2	1	1	1	1	1	1	1	1	1	1	1	2	2	1	1	1	1
Sodium Acetate [CH3COONa]	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1
Sodium Aluminate [AlNaO2]	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1
Sodium Bicarbonate [NaHCO3]	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1
Sodium Bisulfate [NaHSO4]	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1
Sodium Bisulfite [Na2S2O5]	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1
Sodium Borate [Na2B4O7]	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1
Sodium Bromide [NaBr]	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1
Sodium Carbonate [Na2CO3]	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1
Sodium Chlorate (dry) [NaClO3]	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1
Sodium Chloride (dry) [NaCl]	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1
Sodium Chromate [Na2CrO4]	2	2	2	2	1	2	2	2	2	2	2	2	2	3	3	2	2	1	1

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Sodium Cyanide (dry) [NaCN]	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1
Sodium Fluoride (dry) [NaF]	1	1	2	1	1	1	1	1	1	1	1	1	2	2	2	1	1	1	1
Sodium Hydroxide (50%) [NaOH]	1	1	2	1	1	1	1	1	1	1	1	1	1	2	2	1	2	1	1
Sodium Hydroxide (10%) [NaOH]	1	1	1	1	1	1	1	1	1	1	1	1	1	2	2	1	2	1	1
Sodium Hypochlorite (15%) [NaClO]	4	4	4	4	3	4	4	4	4	4	4	4	4	4	4	4	4	2	2
Sodium Hypochlorite (6%) [NaClO]	3	3	1	1	1	1	1	1	1	1	1	1	1	2	2	1	1	1	1
Sodium Metaphosphate (dry) [(NaPO3)n]	2	2	2	2	1	2	2	2	2	2	2	2	2	3	3	2	2	1	1
Sodium Metasilicate (dry) [Na2SiO3]	2	2	2	2	1	2	2	2	2	2	2	2	2	3	3	2	2	1	1
Sodium Nitrate (dry) [NaNO3]	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1
Sodium Phosphate Acid [NaH2PO4]	2	2	2	2	1	2	2	2	2	2	2	2	2	3	3	2	3	1	1
Sodium Silicate (dry) [Na2SiO3]	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1
Sodium Sulfate (dry) [Na2SO4]	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1
Sodium Sulfite (dry) [Na2SO3]	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1
Stannic Chloride (dry) [SnCl4]	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1
Starch [C6H12O6]n	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1
Sulfuric Acid (98%) [H2SO4]	4	3	4	3	1	3	3	3	3	3	3	3	4	4	4	4	4	4	4
Sulfuric Acid (70%) [H2SO4]	4	3	4	3	1	3	3	3	3	3	3	3	4	4	4	4	4	1	1
Sulfuric Acid (70%) H2SO4 @ 85C°	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	1*	1*
Sulfuric Acid (30%) [H2SO4]	3	3	1	1	1	1	1	2	2	2	2	2	3	3	3	1	2	1	1
Sulfuric Acid (10%) [H2SO4]	3	1	1	1	1	1	1	1	1	1	1	1	1	2	2	1	1	1	1
Sulfur Dioxide [SO2]	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1
T Tar	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1
Tall oil @ 50C°	NT	NT	1	1	1	1	1	1	NT	NT	NT	NT	NT	NT	NT	NT	NT	1*	1*
Toluene [C7H8]	4	4	4	1	4	1	1	2	2	2	2	2	2	4	4	4	4	1	1
Transformer Oil	1	1	1	1	1	1	1	1	1	1	1	1	1	2	2	1	1	1	1
Turpentine [C10H16]	1	1	2	1	1	1	1	1	1	1	1	1	2	2	2	1	1	1	1
U Urea (dry) [H2NCONH2]	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1
Urea (30%) [H2NCONH2]	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1
V Vinegar (4-8% Acetic Acid)	3	3	4	3	1	3	3	3	3	3	3	3	3	4	4	3	4	1	1

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X Xylene [C6H4(CH3)2] Ambient	1	1	1	1	1	1	1	1	1	1	1	1	1	2	2	1	1	1	1
Xylene [C6H4(CH3)2] @ 50C°	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	1*	1*
Z Zinc Chloride (dry) [ZnCl2]	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1
Zinc Hydrosulfite (dry) [Zn(HSO3)2]	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1
Zinc Sulfate (dry) [ZnSO4]	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1

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