TECHNICAL BULLETIN

Chemical Resistance Chart

Date: May 3, 2007

SUBJECT: CORROSION & CHEMICAL COMPOUND RESISTANCE COMMON COMPONENTS & INDUSTRY FACINGS

COMPOUND	LDPE	HDPE	PP	PVC	Alum	C. Steel	T-316 SS	T-304 SS
Acetic Acid, Glacial	2	1	2	4	1	4	1	3
Acetone	4	4	1	4	1	1	1	1
Acetonitrile	1	1	3	4	2	1	1	1
Acrylonitrile	1	1	3	4	2	1	1	1
Alcohols:								
Amyl	1	1	XXX	5	2	2	1	1
Benzyl	4	3	4	3	2	2	1	1
Ethyl	2	1	2	3	2	2	1	1
Hexyl	2	2	XXX	5	1	1	1	1
Isobutyl	1	1	1	3	2	5	1	1
Isopropyl	1	1	1	3	2	1	1	1
Methyl	1	1	1	3	1	1	1	1
Aluminum Hydroxide	2	1	2	2	2	5	3	1
Ammonium Chloride	XXX	1	XXX	5	3	4	4	3
Ammonium Hydroxide	2	1	2	3	2	4	1	1
Amyl Acetate	3	2	3	4	1	2	1	1
Amyl Chloride	4	3	4	4	1	1	1	1
Aniline	2	2	3	4	3	2	2	1
Benzaldehyde	2	1	2	4	2	1	2	2
Benzene	4	4	4	4	2	1	2	2
Bromine	4	4	4	4	4	4	4	4
Brtadiene	4	4	4	4	1	1	1	1
Butyric Acid	4	4	4	4	2	4	2	2
Calcium Hydroxide	1	1	1	2	3	3	2	3
Calcium Hypochlorite	1	1	1	4	4	4	2	3
Chloroform	4	4	4	4	2	2	1	2
Cresols	4	4	3	4	1	1	1	1
Cyclohaxane	4	4	4	4	1	2	1	1
Cyclohexanone	4	4	4	4	1	2	1	1
Diethylamine	4	4	3	4	2	1	2	5
Diethylene Glycol	1	1	1	4	2	5	1	1
Ethyl Acetate	1	1	1	4	2	1	2	2
Ethylene Glycol	1	1	1	4	2	1	1	1

1 = Excellent **2 = Good** **3 = Fair** **4 = Not Advised** **XXX = Not Tested**

P.O. Box 755
Ennis, TX 75120
PH: (214) 515-5000
FX: (972) 875-9425

COMPOUND	LDPE	HDPE	PP	PVC	Alum	C. Steel	T-316 SS	T-304 SS
Fatty Acids	2	1	2	2	1	4	1	2
Formaldehyde 40%	2	1	2	4	2	1	1	1
Gasoline	4	2	3	4	1	1	1	1
Heptane	4	3	3	4	1	1	1	1
Hexane	4	3	3	4	1	1	1	1
Hydrazine	4	4	4	4	5	4	1	1
Hydrochloric acid 20%	1	1	1	2	4	4	4	4
Hydrochloric acid 100%	XXX	XXX	XXX	4	4	4	4	4
Hydrofloric acid 20%	1	1	1	1	4	4	4	4
Hydrofloric acid 100%	XXX	XXX	XXX	5	4	4	2	2
Hydrogen Peroxide 30%	2	1	2	3	1	5	2	2
Isopropyl Acetate	3	2	3	4	2	2	1	3
Kerosene	4	2	3	4	1	1	1	1
Mercury	1	1	1	3	5	1	1	1
Methyl Acetate	4	3	3	4	1	1	1	1
Methyl Ethyl Ketone	4	4	2	4	1	1	1	1
Methylene Chloride	4	4	4	4	1	2	2	2
Mineral Spirits	4	4	4	4	1	5	1	1
Nitric Acid 50%	4	4	4	4	3	4	1	1
Nitrobenzene	4	4	4	4	1	2	1	2
Phosphoric Acid 40%	1	1	2	3	2	4	2	1
Potassium Hydroxide 80%	1	1	1	3	4	5	2	2
Propylene Glycol	1	1	1	3	2	1	2	2
Silver Nitrate	2	1	2	2	4	4	2	2
Sodium Hydroxide 80%	2	3	1	3	4	4	3	2
Sodium Hypochlorite 20%	1	1	3	3	4	4	3	3
Sulfuric Acid 10%	1	1	1	2	4	4	2	4
Sulfuric Acid 10% -75%	2	1	2	4	4	4	4	4
Sulfuric Acid 75% -100%	2	2	3	4	4	4	4	3
Tetrachlorethane	XXX	XXX	XXX	4	3	1	1	2
Tetrachloroethylene	XXX	XXX	XXX	4	5	1	1	5
Touene	4	2	3	3	1	1	1	1
Trichloroethane	4	4	4	4	3	2	1	2
Trichloroethylene	4	4	4	4	1	4	2	2
Xylene	3	3	4	4	1	2	1	1

1 = Excellent **2 = Good** **3 = Fair** **4 = Not Advised** **XXX = Not Tested**