

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
Brtdiene	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
Cyclohexane	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				

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This information is based on our best knowledge, but
 POLYGUARD cannot guarantee the results to be obtained.



Polyguard is ISO 9001 certified since 1996.

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
Hydrofluoric acid 20%	1	1	1	1	4	4	4	4
Hydrofluoric 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				

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