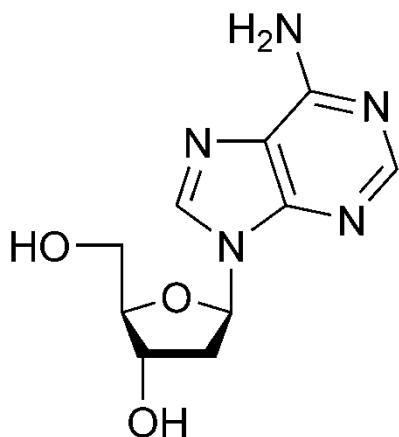


Corrosion Resistance Guide



INTRODUCTION

KEY TO THE RATINGS CONTAINED WITHIN THIS GUIDE:

A = Excellent

B = Good

C = Fair to Poor

X = Not Recommended

- = No Data Available

(All temperatures in degrees C)

This document is intended as a general guide to help in the selection of pump wetted materials. The list includes many of the most common liquids used in industrial and processing applications.

Warnings:

1. The data contained has been compiled from many sources and is believed to be reliable. NO GUARANTEE IS IMPLIED OR EXPRESSLY STATED HEREIN THROUGH THE USE OF THIS GUIDE.
2. Regarding the actual corrosion resistance properties of each material, testing of the materials of construction under actual or similar conditions is recommended.
3. Corrosion rates may vary with concentration, temperature and the presence of abrasives. Impurities or other trace elements common in industrial liquids may inhibit or accelerate the reaction of the material being pumped and the effect on pump materials.
4. Chemicals or liquids may independently be compatible with a type of material, however the combination of several liquids may completely change the chemical compatibility.
5. Even if a material has been deemed to be chemical compatible, always consider other such factors as chemical compatibility of the pumps non wetted parts, solids size, solids content, abrasion resistance, temperature of the liquid, temperature of the surrounding atmosphere, and airline or liquid line pressures.
6. When transferring flammable liquids or operating in explosive environments, follow all local fire and safety laws or regulations. Take care that the pump and all peripheral equipment is fully earthed and note that some pump materials such as non-conductive Polypropylene is unsuited to such applications.
7. Halogenated hydrocarbon solvents such as those listed below should not be used in aluminium equipment as a violent explosion could result. • Carbon Tetrachloride • Methylene Chloride • Dichlorethylene • Methyl Chloride • Chloroform • Trichlorethylene
8. Plastic pumps in general are recommended for strong acids and caustics and not recommended for high temperatures or slurries. Metal pumps in general are good for abrasion resistance, solvents, hydrocarbons, and high temperature applications.

Name of Liquid	TPO Santoprene®	TPEE Hytrel®	NBR Buna N	CR Neoprene	EPDM Nordel®	PTFE Teflon®	FKM Viton®	Al Aluminium	Fe Cast Iron	SUS316 Stainless Steel	Hastelloy®	PPG GF Polypropylene	PP Pure Polypropylene	PVDF Kynar®	PTFE Teflon®
AASTM - Ref Motor Fuel															
Acetaldehyde	—	B	X	X	A	A	X	A	B	A	A	C	C	A/65°	A
Acetamide	—	—	B	B	A	A	B	A	X	X	A	A	A	A/60°	A
Acetate Solvents	—	—	X	X	—	A	X	A	—	A	—	X	B	A	A
Acetic Acid-20%	A	B	C	B	A	A	C	B	—	A	A	C	B	A	A
Acetic Acid-30%	A	B	C	B	A	A	X	B	X	A	A	C	B	B	A
Acetic Acid-50%	A	—	C	C	A	A	C	B	X	A	A	C	B	B	A
Acetic Anhydride	—	C	C	B	B	A	X	B	B 100° 90%	A	A	X	C	B/20°	A
Acetone	A	C	X	X	A	A	X	B	A	A	A	X	X	X	A
Acetone Cyanohydrin	—	—	X	B	X	A	X	A	B	B	B	—	—	—	A
Acetonitrile	—	—	C	A	A	A	X	A	A	A	A	B/38°	—	A	A
Acetophenone	—	—	X	X	A	A	X	B	A	A	B	A/20°	A	A	A
Acetyl Acetone	—	—	X	X	A	A	X	B	X	B	B	—	—	—	A
Acetyl Chloride	—	X	X	X	C	A	B	X	A	B	A	X	—	A	A
Acetyl Salicylic Acid	—	—	—	X	B	A	—	A	X	B	B	—	—	—	A
Acetylene	—	A	A	C	A	A	A	A	A	A	A	X	B	A	A
Acetylene Tetrabromide	—	—	X	X	—	A	A	X	X	A	—	—	—	—	A
Acrolein	—	—	B	—	—	A	A	A	B	B	B	—	—	—	A
Acrylonitrile	A	—	X	X	X	A	X	A	A	A	A	B	B	A	A
Adipic Acid Aqueous	—	—	B	X	—	A	A	B	B	B	A	A	B	A	A
Aliphatic	—	A/70°	A	B	X	A	A	A	A	A	A	—	—	—	A
Alkazene(Chlorethyl or Polyisoprpopyl benzenes)	—	—	X	X	—	A	A	—	—	—	—	—	—	—	A
Allyl Alcohol (2-Propen-1-ol)	—	—	A	A	A	A	B	B	A	A	A	—	—	—	A
Allyl Bromide (3-Bromopropene)	—	—	X	X	X	A	B	X	A	—	—	—	—	—	A
Allyl Chloride (3-Chloropropene)	—	—	X	X	X	A	B	X	C	B	—	A/70°	A	A	A
Almond Oil (artificial)	—	—	X	X	B	A	X	—	—	—	—	—	A	—	A
Alum(Aluminum Potassium Sulfate Dodecaytrate)	—	—	A	A	A	A	X	—	—	B	B	A	A	A	A
Aluminum Acetate	—	—	C	C	A	A	X	B	C	A	A	A/38°	—	A	A
Aluminum Bromide	—	—	A	A	—	A	—	—	—	—	—	—	—	A	A
Aluminum Chloride	A	B	A	A	A	A	A	X	C	B	A/25%	A	A	A	A
Aluminum Fluoride	—	—	A	A	B	A	A	A/50%	C	C	A/20%	A	A	A	A
Aluminum Hydroxide	—	—	B	A	A	A	C	B/10%	B/30%	B	B/10%	A	A	A	A
Aluminum Nitrate	—	—	A	A	A	A	A	X	—	A/10%	B/10%	A	A	A	A
Aluminum Phosphate	—	—	A	A	A	A	A	—	—	—	—	—	—	—	A
Aluminum Potassium Sulfate (Potash Alum)	—	—	A	A	A	A	A	A/10%	X	A	B	A	A	A	A
Aluminum sodium Sulfate (Soda Alum) 12-water	—	—	A	A	A	A	A	—	—	—	—	—	—	—	A
Aluminum Sulfate (Cake Alum)	A	B	A	A	A	A	A	B/30%	X	A75°50%	A100°90%	A	A	A	A
Alumminum Ammonium Sulfate (Alum)	—	—	B	B	—	A	A	—	—	—	—	A	A	A	A
Amines	—	A/70%	X	B	—	—	X	—	—	A	—	B	B	—	A
Ammonia Anhydrous, Liquid	A	X	B	B	A	A	X	A	A	A	A	A	A	A	A
Ammonia Gas - Cold	A	—	A	A	—	A	A	—	—	—	—	—	B	—	A
Ammonia Gas - Hot	—	—	C	B	—	A	X	—	—	—	—	—	—	—	A
Ammonia Liquors	A	—	—	A	—	A	X	A	A	A	—	—	A	—	A
Ammonium Acetate	A	—	—	A	—	A	A	A	B/50%	A/50%	—	—	—	—	A
Ammonium Bicarbonate	—	—	A	A	A	A	A	B	B	B/90%	—	—	—	—	A
Ammonium Bifluoride - 10%	—	—	B	X	—	A	—	C	X	B	B	A	A	A	A
Ammonium Carbonate	A	—	x	B	A	A	A	B	B	B100°70%	B100°70%	A	A	A	A
Ammonium Casenite	—	—	—	A	—	—	—	—	—	A	—	—	—	—	A
Ammonium Chloride	A	A	A	A	A	A	A	X	X	B	A	A	A	A	A
Ammonium Cupric Sulfate	—	—	A	—	—	A	A	—	—	—	—	—	—	—	A
Ammonium Dichromate	—	—	A	A	A	A	—	A	A	A/30%	—	—	—	—	A
Ammonium Fluoride	—	—	B	B	—	A	A/20%	B/10%	B/20%	B	A/40%	B	A	A	A
Ammonium Hydroxide	A	—	B	B	A	A	B	A/30%	B/30%	A/50%	A/80%	A	A	A	A
Ammonium Metaphosphate	—	—	A	A	A	A	A	B/90%	B	B	A	A	A	A	A
Ammonium Nitrate	A	—	A	A	A	A	A	B	A	A	A	A	A	A	A
Ammonium Oxalate	—	—	A	A	—	—	—	—	—	A	A	—	—	—	A
Ammonium Persulfate	—	—	C	A	B	A	A	C	X	A	—	A	A	A	A
Ammonium Phosphate, Di-Basic	—	—	A	A	—	A	A	B	—	A	A	A	A	A	A
Ammonium Phosphate, Monobasic	A	B	A	A	A	A	A	X	X	B	A/5%	A	A	A	A
Ammonium Phosphate, Tri-Basic	—	—	A	A	—	A	A	X	—	B	B	A	A	A	A
Ammonium Sulfate	A	C	A	A	A	A	A	X	B	A100°80%	B/40%	A	A	A	A
Ammonium Sulfide	—	—	A	A	—	A	A	B	—	B	A/10%	—	—	—	A
Ammonium Sulfite	—	—	A	—	—	A	A	C	X	B	A/100%	A	A	—	A
Ammonium Thiocyanate	—	—	A	A	A	A	A	C	C	A/50%	A/50%	—	—	—	A
Ammonium Thiosulfate	—	—	A	A	A	A	A	A/40%	X	A/10%	—	—	—	—	A
Amyl Acetate	—	C	X	X	A	A	X	A	B	A	B	C	C	A/120°	A
Amyl Alcohol	B	—	B	A	A	A	A	A	A	A	B	A	A	A	A
Amyl Borate	—	—	A	B	—	A	A	—	—	—	—	—	—	—	A
Amyl Chloride	—	—	X	X	X	A	A	X	A	A	B	X	X	A	A
Amyl Chloronaphthalene	—	—	B	X	—	A	A	—	—	—	—	—	—	—	A
Amyl Naphthalene	—	—	X	X	X	A	A	—	—	—	—	—	—	—	A
Amyl Phenol	—	—	X	—	—	A	A	A	A	A	A	—	—	—	A
Amyl(1-Pentanol)	B	—	B	B	—	A	B	B	—	A	A	B	B	A	A
Anilene	A	X	X	X	C	A	B	B	A	A	B	A	A	A	A
Anilene (High)	—	A/100°	A	B	X	A	A	A	A	A	A	—	—	—	A

Name of Liquid															
	TPO Santoprene®	TPEE Hytrel®	NBR Buna N	CR Neoprene	EPDM Nordel®	PTFE Teflon®	FKM Viton®	Al Aluminium	Fe Cast Iron	SUS316 Stainless Steel	Hastelloy®	PPG GF Polypropylene	PP Pure Polypropylene	PVDF Kynar®	PTFE Teflon®
Coke Oven Gas	—	—	C	C	—	A	A	—	—	—	—	—	—	A	A
Com Oil	—	A	A	C	C	A	A	B	C	B	—	A	A	A	A
Copper Acetate	—	—	B	C	A	A	—	X	A/90%	B/10%	B/10%	—	A	A	A
Copper Chloride	—	A	A	A	A	A	A	X	X	X	B/40%	A	A	A	A
Copper Cyanide	—	—	A	A	A	A	A	X	A	A/10%	A/170%	A	A	A	A
Copper Fluoroborate	—	—	B	A	—	—	A	X	X	X	B	—	A	—	A
Copper Nitrate Hexahydrate	—	—	A	A	A	A	A	X	X	A	B	A	A	A	A
Copper Sulfate	A	A	A	A	A	A	A	X	X	A/10%	A	A	A	A	A
Copper Sulfide	A	—	A	—	—	A	A	—	—	—	—	—	—	—	A
Cotton Seed Oil	—	A	A	C	A	A	A	A	C	A	—	A	A	A	A
Cream	—	—	A	C	—	A	A	—	X	A	—	A	A	—	A
Creosote, Coal-Tar	—	X	A	C	X	A	A	B	B	B	B	X	—	—	A
Creosote, Wood - Tar	—	X	A	B	X	A	A	—	—	B	—	X	—	—	A
Cresylic Acid	—	—	C	X	X	A	A	B	C	A	B	X	C	A/65°	A
Crotonaldehyde	—	—	X	A	—	A	A	A	A	A	A	—	—	—	A
Cumene	—	—	X	X	X	A	A	B	B	B	B	—	—	—	A
Cutting Oil (sulfur base)	—	—	A	C	—	A	—	A	A	A	A	—	—	—	A
Cutting Oil (water soluble)	—	—	C	X	—	A	A	A	A	A	A	—	—	—	A
Cyclohexane	X	A	B	X	X	A	A	B	B	B	B	X	X	A	A
Cyclohexanol	C	—	B	A	X	A	A	C	B	A	A	B	B	A/65°	A
Cyclohexanone	B	—	X	X	C	A	X	B	B	B	B	X	X	A	A
Cyclopentane	—	—	B	A	X	A	A	B	B	B	B	—	—	—	A
Cymene	—	—	C	X	X	A	A	—	—	—	—	—	—	—	A
Decahydronaphthalene	—	—	X	X	X	A	A	—	—	—	—	—	B	—	A
Decanal	—	—	X	—	X	A	X	—	—	—	—	—	—	—	A
Decane	—	—	B	X	C	A	A	—	—	—	—	A/70%	A	A	A
Decyl Alcohol	—	—	A	X	—	A	B	—	—	—	—	—	—	—	A
Denatured Alcohol	—	—	A	B	A	A	B	B	B	A	A	A	A	A	A
Detergent Solutions	—	B	A	A	A	A	A	B	—	A	—	A	A	—	A
Developing Fluids & Solutions	—	X	A	A	C	A	A	—	X	A	A	—	—	—	A
Dextrose	—	B/60°	B	B	A	A	A	A	X	A	A	A	—	A	A
Diacetone	—	—	X	X	B	A	X	A	A	A	A	X	X	A	A
Diacetone Alcohol	—	C	A	X	B	A	X	A	A	A	A	X	—	C	A
Dibenzyl Ether	—	—	X	X	C	A	C	B	B	B	B	—	X	C	A
Dibenzyl Sebecate	—	A	X	X	C	A	B	—	—	—	—	—	—	—	A
Dibutyl Amine	—	—	C	X	X	A	X	—	A	A	A	X	X	B/20°	A
Dibutyl Phthalate (DBP)	—	A	X	X	A	A	B	A	A	A	A	X	C	X	A
Dibutyl Sebecate (DBS)	—	—	X	X	C	A	C	—	A	A	—	C	B	—	A
Dichlohexylamine	—	—	X	X	X	A	B	—	—	—	—	—	—	—	A
Dichloro Isopropyl Ether	—	—	X	X	X	A	X	—	—	—	—	X	X	—	A
Dichloroacetic Acid	—	—	X	X	—	A	X	—	—	—	—	—	—	—	A
Dichlorobenzene (o-Dichlorobenzene)	—	—	X	X	—	A	A	X	A	A	—	X	B	—	A
Dichlorobutane	A	—	—	—	X	—	A	—	X	B	B	—	—	—	A
Dichloroethyl Ether	—	—	X	—	—	A	—	B	—	—	—	—	—	—	A
Diesel Oil (Fuel ASTM #2)	—	B	A	C	X	A	A	A	A	A	A	B	B	A	A
Diester Synthetic Oils	—	—	B	X	X	A	A	A	A	A	A	—	—	—	A
Diethanol Amine	—	—	B	A	—	A	—	—	A	A	A	A	—	—	A
Diethylene Ether	—	—	X	X	A	A	X	A	A	A	—	—	—	—	A
Diethyl Amine	—	—	C	C	C	A	X	B	B	A	A	A	—	A	A
Diethyl Benzene	—	—	X	X	X	A	A	—	—	—	—	—	—	—	A
Diethyl Carbonate	—	—	X	X	—	A	—	—	A	—	—	—	—	—	A
Diethyl Ether	—	C	B	C	X	A	X	B	A	A	A	X	—	A	A
Diethyl Sebecate	—	A	X	X	C	A	B	A	A	A	A	A/50°	A	A/50°	A
Diethylene Glycol (DEG)	—	A	A	A	A	A	A	A	A	A	A	A	—	—	A
Diethylene Triamine	—	—	B	—	—	A	—	A	A	A	A	—	—	—	A
Diisobutyl Ketone	—	—	X	X	B	A	X	A	A	A	A	—	—	—	A
Diisobutylene	—	—	B	C	—	A	C	—	—	—	—	A	—	A	A
Diisodecyl Adicate (DIDA)	—	—	X	—	—	A	C	—	—	—	—	—	—	—	A
Diisodecyl Phthalate (DIDP)	—	—	X	X	A	A	C	—	—	—	—	—	—	—	A
Diisooctyl Adipate (DIOA)	—	—	X	—	—	A	C	A	A	A	A	—	—	—	A
Diisooctyl Phthalate (DIOP)	—	—	X	—	—	A	C	—	—	—	—	—	—	—	A
Diisooctyl Sebecate (DIOS)	—	—	—	—	B	A	A	—	—	—	—	—	—	—	A
Diisopropyl Amine	—	—	B	—	—	A	—	—	—	—	—	—	—	—	A
Diisopropyl Benzene	—	—	X	X	X	A	A	—	—	—	—	—	—	—	A
Diisopropyl Ketone	—	—	X	X	A	A	X	—	—	A	—	—	—	—	A
Dimethyl Ether	—	—	A	B	—	A	A	B	B	B	B	—	—	—	A
Dimethyl Formamide (N, N-Dimethyl Formamide(DMF))	—	C	C	X	—	A	X	A	—	A	A	A/50°	A	A/50°	A
Dimethyl Phthalate	—	A	X	X	C	C	—	—	—	—	—	—	A	A/20°	A
Dimethyl Sulfate	—	—	X	—	—	A	X	—	A	—	—	—	—	—	A
Dimethyl Sulfide	—	—	X	—	—	A	—	A	A	A	A	—	—	—	A
Dimethylaniline (N, N-Dimethylaniline)	—	—	X	X	C	A	X	B	B	—	—	X	A	A	A
Dinitrotoluene (DNT)	—	—	X	X	X	A	C	—	—	A	—	—	—	—	A
Diocetyl Phtahalate (DOP)	—	A	X	X	B	A	B	A	A	A	A	—	—	—	A
Diocetyl Sebacate (DOS)	—	—	X	X	C	A	C	A	A	A	A	—	—	—	A
Dioxolanes	—	—	X	X	B	A	C	—	—	—	—	—	—	—	A
Dipentene	—	—	C	X	X	A	A	A	A	A	A	—	—	—	A
Diphenyl Oxides	—	—	X	X	C	A	A	B	A	A	A	—	—	A	A
Dipropyl Ketone	—	—	X	—	—	A	—	—	—	—	—	—	—	—	A
Dipropylamine	—	—	B	—	—	A	—	—	—	—	—	—	—	—	A

Name of Liquid	TPO Santoprene®	TPEE Hytrej®	NBR Buna N	CR Neoprene	EPDM Nordel®	PTFE Teflon®	FKM Viton®	Al Aluminium	Fe Cast Iron	SUS316 Stainless Steel	Hastelloy®	PPG GF Polypropylene	PP Pure Polypropylene	PVDF Kynar®	PTFE Teflon®
Dipropylene Glycol	—	—	A	—	—	A	A	—	—	—	—	A	A	A	A
Dispersing Oil #10	—	—	X	X	X	A	C	A	A	A	A	—	—	—	A
Divinyl Benzene (DVB)	—	—	X	—	—	A	A	—	—	—	—	—	—	—	A
Dodecyl Benzene	—	—	X	—	—	A	A	A	A	A	—	—	—	—	A
Dow Coming	—	—	A	A	—	A	A	A	—	—	—	—	—	—	A
Dowtherm	—	—	X	X	X	A	A	A	B	A	A	—	—	—	A
Drycleaning Fluids	—	—	C	X	—	A	A	A	A	A	—	X	X	—	A
Dyes	—	—	—	C	—	—	A	B	—	A	—	—	—	—	A
Ethyl Silicate	—	—	A	A	A	A	A	B	A	A	A	—	—	—	A
Epichlorohydrin	—	X	X	X	B	A	X	A	A	A	A	B	B	X	A
Epsom Salts	—	—	A	A	—	A	A	A	—	A	B	A	A	A	A
Ethane	—	—	A	C	X	A	A	A	A	A	A	C	C	—	A
Ethanol	—	A	A	A	—	A	B	B	B	A	A	A/38°	A/38°	A	A
Ethanolamine	—	—	B	C	B	A	X	B	A	A	—	X	X	C	A
Ethyl Acetate	A	C	X	X	B	A	X	A	A	A	A	C	B	A	A
Ethyl Acetoacetate	—	—	X	X	C	A	X	A	A	A	A	—	—	A/20°	A
Ethyl Acrylate	—	—	X	X	C	A	X	A	A	A	A	B	B	B/20°	A
Ethyl Aluminum Dichloride	—	—	X	—	—	A	B	—	—	—	—	—	—	—	A
Ethyl Amine	—	—	X	C	A	A	X	B	B	A	—	—	—	—	A
Ethyl Benzene	X	—	X	X	X	A	A	B	B	B	A	X	X	A	A
Ethyl Benzoate	—	—	X	X	C	A	A	A	A	A	A	B	B	—	A
Ethyl Bromide	—	—	X	B	B	A	—	X	A	A	A	—	—	—	A
Ethyl Bromide	—	—	X	B	B	A	—	X	A	A	A	—	—	—	A
Ethyl Butyl Acetate	—	—	X	—	—	A	X	—	—	—	—	—	—	—	A
Ethyl Butyl Alcohol	—	—	A	—	—	A	B	—	—	—	—	—	—	—	A
Ethyl Butyl Ketone	—	—	X	—	—	A	X	—	—	—	—	—	—	—	A
Ethyl Butyraldehyde	—	—	X	—	—	A	X	—	—	—	—	—	—	—	A
Ethyl Butyrate	—	—	X	X	X	A	C	B	A	A	A	B	B	—	A
Ethyl Caprylate	—	—	X	X	X	A	—	—	—	—	—	—	—	—	A
Ethyl Cellosolve	—	—	C	C	B	A	X	—	—	—	—	—	—	—	A
Ethyl Cellulose	—	B	B	B	B	A	C	B	A	B	B	C	C	—	A
Ethyl Chloride	X	X	A	C	A	A	A	X	B	A	B	X	X	A	A
Ethyl Chlorocarbonate	—	—	—	C	—	A	A	—	—	—	—	—	X	—	A
Ethyl Cyanide	—	—	X	B	A	A	X	—	—	—	—	—	—	—	A
Ethyl Formate	—	—	X	B	C	A	A	B	A	B	B	—	—	—	A
Ethyl Isobutyrate	—	—	X	X	X	A	—	—	—	—	—	—	—	—	A
Ethyl Iodide	—	—	—	—	—	—	—	—	—	—	—	—	—	—	A
Ethyl Mercaptan	—	—	X	C	X	A	B	B	A	B	B	—	—	—	A
Ethyl Oxalate	—	—	X	X	A	A	B	—	—	—	—	—	—	—	A
Ethyl Pentachlorobenzene	—	—	X	X	—	A	A	X	—	—	—	X	X	—	A
Ethyl Propionate	—	—	X	X	X	A	—	A	A	A	A	—	—	—	A
Ethyl Sulfate	—	—	A	—	—	A	A	—	—	X	—	—	—	—	A
Ethylene	—	—	B	A	C	A	A	A	A	A	—	—	—	—	A
Ethylene Chlorohydrin	—	X	X	B	A	A	B	—	B	A	A	X	X	A/20°	A
Ethylene Diamine	—	—	B	A	A	A	X	C	A	A	A	A	A	B	A
Ethylene Dibromide	—	—	X	X	C	A	B	X	X	B	B	X	—	A	A
Ethylene Dichloride (Dutch Oil)	—	X	X	X	X	A	B	X	B	B	B	X	X	A	A
Ethylene Glycol Monobutyl Ether	—	—	B	X	B	A	C	A	A	A	A	—	A	—	A
Ethylene Glycol Monobutyl Ether Acetate	—	—	C	X	B	A	C	A	A	A	A	—	A	—	A
Ethylene Glycol Monomethyl Ether	—	—	C	C	B	A	X	B	B	A	A	—	A	—	A
Ethylene Glycol (Ethylene Alcohol)	A	A	A	A	A	A	A/20°	A	A	A	A	A/50°	A	A	A
Ethylene Oxide	A	A	X	X	X	A	C	A	B	A	A	C	B	A	A
Ethylene Trichloride	—	—	X	X	X	A	A	X	A	A	—	X	X	—	A
Ethylhexyl Acetate	—	—	X	—	—	A	X	—	—	—	—	—	—	—	A
Ethylhexyl Alcohol	—	—	A	—	—	A	B	A	A	A	A	—	—	—	A
Ethylidene Chloride	—	—	X	X	X	A	—	X	B	A	B	—	—	—	A
Fatty Acids	B	B	B	C	X	A	A	A/90%	X	A	A	B	B	A	A
Ferric Chloride	A	B	A	A	A	A	A	X	X	X	A/10%	A	A	A	A
Ferric Hydroxide	—	—	B	—	—	A	C	—	—	A	B/10%	—	—	—	A
Ferric Nitrate	—	—	A	A	A	A	A	X	X	B	A/10%	A	A	A	A
Ferric Sulfate	—	—	A	A	A	A	A	C	X	B	A/30%	A	A	A	A
Ferrous Chloride	—	X	A	A	A	A	A	X	X	B/20%	B/50%	A	A	A	A
Ferrous Sulfate	—	A	A	A	A	A	A	A/10%	C	B	A/30%	A	A	A	A
Fish Oil	—	—	A	—	—	A	A	—	—	—	—	—	—	—	A
Fluoboric Acid	—	X	A	B	A	A	C	X	X	A/30%	—	A	A	A	A
Fluorine (Liquid)	—	X	X	C	C	A	B	X	—	A	—	X	X	A/20°	A
Fluorobenzene	—	—	X	X	X	A	A	—	—	—	—	X	X	—	A
Fluorolube (Fluorocarbon Oils)	—	—	C	A	A	A	B	A	A	A	A	X	X	—	A
Fluosilicic Acid	—	—	B	A	B	A	A	X	X	A/100°	B	A	A	A	A
Formaldehyde	A/40%	C/5°	B	C	A	A	A	A	C	A/90%	A/70%	A	A	A/50°	A
Formamide	—	—	A	A	A	A	X	A	B	B	B	—	—	—	A
Formic Acid	A/50%	C	C	B	B	A	C	X	X	C	A	A/70%	A	A	A
Freon 11 (Trichlorofluoromethane)	—	B	C	C	X	A	B	B	A	A	—	B	B	A	A
Freon 113 (Trichlorotrifluoroethane)	—	A/55°	B	A	X	A	B	B	—	A	—	—	X	A	A
Freon 114 (Dichlorotetrafluoroethane)	—	B	A	A	C	A	A	B	—	A	—	—	X	A	A
Freon 114B2 (Dibromotetrafluoroethane)	—	—	B	A	X	A	B	—	—	—	—	—	—	—	A
Freon 115 (Chloropentafluoroethane)	—	—	A	A	A	A	B	A	—	—	—	—	X	—	A
Freon 12 (Dichlorofluoromethane)	—	B	B	B	B	A	B	A	A	A	—	—	B	A	A
Freon 13 (Chlorofluoromethane)	—	C	A	A	A	A	A	A	A	A	A	—	X	—	A

Name of Liquid	TPO Santoprene®	TPEE Hytrej®	NBR Buna N	CR Neoprene	EPDM Nordel®	PTFE Teflon®	FKM Viton®	Al Aluminium	Fe Cast Iron	SUS316 Stainless Steel	Hastelloy®	PPG GF Polypropelene	PP Pure Polypropelene	PVDF Kynar®	PTFE Teflon®
Freon 13B1 (Bromotrifloromethane)	—	—	A	A	A	A	A	—	—	—	—	—	—	—	A
Freon 14 (Tetrafluoromethane)	—	—	X	X	B	A	—	—	—	—	—	—	—	—	A
Freon 21 (Dichlorofluoromethane)	—	—	X	B	X	A	X	A	A	A	A	—	X	A	A
Freon 22 (Chlorofluoromethane)	—	X	X	B	C	A	X	A	A	A	A	—	X	A	A
Fruit Juices	—	B	A	A	A	A	A	A/10%	X	A	A	A	A	A	A
Fuel Oils(ASTM #1 thru #9)	—	B	A	C	X	A	A	A	A	A	A	C	C	A	A
Fumaric Acid	—	—	C	B	—	A	A	—	—	—	—	—	—	—	A
Fural	—	X	X	X	X	A	C	—	—	—	—	C	C	X	A
Furfural(Ant Oil)	—	—	X	B	B	A	C	A	B	A/20%	B	X	X	B/50°	A
Furfuryl Alcohol	—	B	X	—	B	A	X	A	A	A	A	—	—	B/38°	A
Fusel Oil	—	—	A	A	A	A	A	—	—	—	—	—	—	—	A
Gallic Acid	—	X	B	C	B	A	A	A/20%	X	B	B	A/20°	A	A/20°	A
Gasoline	—	A	A	C	X	A	A	A	A	A	A	C	C	A	A
Gasoline	X	—	X	X	X	A	A	A	A	A	A	C	X	A	A
Gelatin	—	B	A	A	A	A	B	A	A	A	—	A	A	A	A
Ginger Oil	—	—	—	A	—	A	A	—	X	A	—	—	—	—	A
Glauber's Salt	—	B	A	A	B	A	A	—	—	—	—	—	—	—	A
Gluconic Acid	—	—	C	—	—	A	A	B	C	A/50%	A	—	—	—	A
Glucose	—	B	A	A	A	A	A	A	A	A	—	A	A	A	A
Glue	—	B	A	A	B	A	A	A	A	B	A	A	B	—	A
Glycerol	—	A	A	A	A	A	A	A	A	A	A	A	—	A	A
Glycolic Acid	A/30%	—	A	A	—	—	A	—	—	—	A	A	A	A	A
Glycols	A	—	A	A	—	A	A	B	B	B	—	A	A	A	A
Gold Monocyanide	—	—	A	A	—	—	A	—	—	X	A	—	A	—	A
Grape Juice	—	—	C	X	—	A	A	—	X	A	—	A	A	A	A
Grapefruit Oil	—	—	X	X	—	A	—	—	X	A	—	—	—	—	A
Grease	—	A	A	X	—	A	A	A	—	A	—	—	—	—	A
Green Sulfate Liquor	—	X	B	B	A	A	A	B	C	A	B	A	A	—	A
Halowax Oil	—	—	X	X	X	A	A	X	—	—	—	—	—	—	A
Heptane	X	—	A	C	X	A	A	A	A	A	A	C/60°	C	A	A
Heptanol	—	—	A	—	—	—	A	A	A	A	A	A	A	—	A
Hexalin	—	—	B	A	C	A	A	—	—	—	—	—	—	—	A
Hexanol	—	—	X	A	B	A	C	A	B	A	B	—	—	—	A
Hexy Alcohol (1-Hexanol)	—	—	A	B	C	A	A	A	A	A	—	—	—	A	A
Hexyl(1-Hexanol)	—	—	A	B	—	A	A	A	—	A	A	A/20°	A/20°	A	A
Hexylene Glycol	—	—	A	A	C	A	A	A	A	A	A	—	—	—	A
Honey	—	—	—	A	—	A	—	A	A	A	—	A	A	—	A
Hydraulic Oil (petroleum base)	—	X	A	B	X	A	A	A	A	A	A	X	X	—	A
Hydrazine	—	X	C	C	A	A	X	A	X	A	A	X	A	X	A
Hydrobromic Acid	A/10%	—	X	C	A	A	A	X	X	X	—	B	B	A	A
Hydrochloric Acid 10%	—	X	B	B	A	A	A	X	C	X	B	A	A	A	A
Hydrochloric Acid 20%	—	X	B	B	A	A	A	X	C	X	A	B	A	A	A
Hydrochloric Acid 30% (Conc.)	—	X	C	C	A	A	B	X	X	X	A	C	A	A	A
Hydrocyanic Acid	—	X	B	C	A	A	A	A/10%	X	A	B	A	A	A	A
Hydrofluoric Acid (Conc.) Cold	X	X	—	C	C	A	B	X	X	X	B	X	X	B	A
Hydrogen Fluoride	X	—	X	C	C	A	A	X	—	X	A	C	A	A	A
Hydrogen Peroxide 10%	—	—	B	B	—	A	A	C	—	A	A	X	—	—	A
Hydrogen Peroxide 3%	A	X	B	B	B	A	A	C	—	—	—	X	—	A	A
Hydrogen Peroxide 30%	A	X	C	C	B	A	A	C	B	A	A	X	—	A	A
Hydrogen Peroxide 90%	X	X	X	B	C	A	A	C	X	A	—	X	—	—	A
Hydrogen Sulfide (Wet)	A	A	X	C	A	A	X	A/90%	X	A/75°	A/75°	A	A	A	A
Hydroquinone	—	—	C	X	—	A	C	A/90%	B	A/10%	B	—	—	—	A
Hydroxyacetic Acid-10%	—	—	X	X	—	A	—	B	—	B	—	—	—	—	A
Hypochlorous Acid	—	—	X	X	B	A	A	X	X	X	A	X	A	A	A
Iodoform	—	—	—	—	A	A	—	A	A	A	A	—	—	A	A
Ink (Water based)	—	—	A	A	—	A	A	C	X	A	A	—	—	—	A
Iodine	—	B	B	B	B	A	A	A	X	X	A	A	A	A/65°	A
Isoamyl Acetate	—	—	X	X	B	A	X	A	A	A	A	—	—	—	A
Isoamyl Alcohol	—	—	A	A	A	A	A	—	—	—	—	—	—	—	A
Isoamyl Butyrate	—	—	X	—	—	A	X	A	A	A	A	—	—	—	A
Isoamyl Chloride	—	—	X	X	X	A	A	X	—	—	—	—	—	—	A
Isobutanol	—	—	B	B	A	A	A	A	—	—	—	A	A	A	A
Isobutyl Acetate	—	—	X	X	C	A	X	A	A	A	A	—	—	—	A
Isobutyl Alcohol	—	—	B	B	A	A	A	A	—	—	—	A	A	A	A
Isobutyl Amine	—	—	X	—	—	A	X	—	—	—	—	—	—	—	A
Isobutyl Chloride	—	—	X	—	—	A	B	X	B	B	A/90%	—	—	—	A
Isobutyl (2-Methyl-1-Propanol)	—	—	C	A	—	A	A	B	—	A	A	—	—	A	A
Isobutyric Acid	—	—	X	B	A	A	—	A	—	—	—	—	—	—	A
Isododecane	—	—	B	A	X	A	A	B	B	B	B	—	—	—	A
Isooctane	X	A	A	B	X	A	A	A	A	A	A	A	A	A	A
Isopentane	—	—	A	—	—	A	A	—	—	—	—	—	—	—	A
Isophorone	—	—	X	X	C	A	X	A	A	A	A	—	—	—	A
Isopropyl(2-Propanol)	—	—	C	B	—	A	A	B	C	A	A	A	A	A/65°	A
Isopropyl Acetate	—	—	X	X	B	A	X	A	A	A	A	B	B	—	A
Isopropyl Alcohol	A	A	B	A	B	A	A	A/90%	A	A	A	A	A	A	A
Isopropyl Amine	—	—	X	—	—	A	X	—	A	A	—	—	—	—	A
Isopropyl Chloride	—	—	X	X	X	A	B	X	A	A	A	X	X	—	A
Isopropyl Ether	B	—	C	C	X	A	C	B	—	A	—	X	B	A/70%	A
Jet Fuels (JP1 to JP6)(ASTM-A,Al&B)	—	X	A	C	X	A	A	A	A	A	A	X	X	A	A

Name of Liquid	Elastomers						Metals				Plastics				
	TPO Santoprene®	TPEE Hytrej®	NBR Buna N	CR Neoprene	EPDM Nordel®	PTFE Teflon®	FKM Viton®	Al Aluminium	Fe Cast Iron	SUS316 Stainless Steel	Hastelloy®	PPG GF Polypropylene	PP Pure Polypropylene	PVDF Kynar®	PTFE Teflon®
Mixed Acids	—	—	X	X	B	A	A	X	X	B	B	X	—	A	A
Molasses	A	B	A	A	A	A	A	A	A	A	A	A	A	A	A
Monochloroacetone	—	—	X	C	A	A	C	X	B	B	B	X	—	—	A
Monochlorobenzene	—	C	X	X	—	A	A	X	A	A	—	X	X	A/38°	A
Monoethanolamine	—	—	B	C	—	A	C	B	A	A	—	X	X	X	A
Monomethylether	—	—	A	B	—	A	A	—	—	—	—	—	—	—	A
Monovinyl Acetylene	—	—	A	B	—	A	A	—	—	—	—	—	—	—	A
Mustard	—	B	C	A	—	A	X	B	X	A	A	A	A	—	A
n-Amyl Amine (1-Aminopentane)	—	—	C	X	X	A	X	—	—	—	—	—	—	—	A
Naphtha	—	A	A	X	X	A	A	A	B	A	A	X	C	A	A
Naphtha Coal Tar (Benzol)	—	—	X	X	X	A	A	A	B	A	A	—	—	—	A
Naphthalene	C	C	X	X	X	A	A	B	A	A	A	A	A	A	A
Naphthoic Acid	—	—	B	—	X	A	A	B	B	A	B	—	—	—	A
Neatsfoot Oil	—	—	A	—	C	A	A	—	—	A	—	—	—	—	A
Neohexane (2,2-dimethylbutane)	—	—	A	—	—	A	A	—	—	—	—	—	—	—	A
Neosol	—	—	A	A	B	A	C	B	B	A	A	—	—	—	A
Neville Acid	—	—	C	C	C	A	B	—	—	—	—	—	—	—	A
n-Hexane	—	A	A	B	X	A	A	A	A	A	A	C/60°	C/60°	A	A
n-Hexane 1	—	—	A	B	X	A	A	—	—	—	—	—	—	—	A
Nickel Acetate	—	—	B	B	A	A	X	—	—	A	—	A	A	A	A
Nickel Chloride	—	X	A	A	A	A	A	X	X	B	A/80% 93°	A	A	A	A
Nickel Nitrate	—	—	A	A	A	A	A	X	—	A	B	A	A	A	A
Nickel Sulfate	A	—	A	A	A	A	A	X	X	A/40%	B	A	A	A	A
Nitrana (Ammonia Fertilizer)	—	—	B	B	—	A	C	—	—	A	—	—	—	—	A
Nitric Acid (Concentrated)	X	X	X	X	X	A	C	A	X	A	A/40%	X	—	C/50°	A
Nitric Acid 10%	B	X	X	B	B	A	A	A	X	A	A	A	A	A	A
Nitric Acid 25%	C	X	X	C	B	A	A	X	X	A/30%	A/30%	B	B	A	A
Nitric Acid 35%	X	X	X	X	C	A	A	X	X	A/40%	A/40%	C	B	A	A
Nitric Acid 50%	X	X	X	X	X	A	B	X	X	A	X	X	B	A	A
Nitric Acid 70%	X	X	X	X	X	A	C	—	X	A	X	X	—	B	A
Nitrobenzene	A	X	X	X	X	A	B	A	A	A	B/55% 100°	B	B	A/20°	A
Nitroethane	—	—	X	C	C	A	X	A	A	A	A	C	C	A/20°	A
Nitrogen Tetroxide	—	B/50%	X	X	X	A	C	A	B	A	A	X	X	C	A
Nitromethane	—	X	X	C	C	A	X	A	A	A	A	C	C	A/50°	A
Nitropropane (1-Nitropropane)	—	—	X	C	A	A	X	A	A	A	A	—	—	—	A
N-Methyl Aniline	—	—	X	X	—	A	C	—	—	—	—	C	C	—	A
n-Octane	—	—	A	—	X	A	A	—	—	—	—	X	X	A	A
n-Propyl Acetate	—	—	X	X	A	A	X	A	—	A	A	C	C	A	A
n-Propyl Nitrate	—	—	A	—	B	A	C	A	X	—	—	—	—	—	A
Octachlorotoluene	—	—	X	X	—	A	A	X	—	—	—	X	X	—	A
Octadecane	—	—	A	B	X	A	A	—	—	—	—	—	—	—	A
Octyl	—	—	B	B	—	A	A	A	—	A	A	—	—	—	A
Octyl Acetate	—	—	X	—	—	A	X	A	—	A	—	—	—	—	A
o-Dichlorobenzene	—	X	X	X	X	A	A	X	B	B	A	B	B	A/65°	A
Oleic Acid (Red Oil)	—	A	C	X	C	A	B	A	C	B	A	B	B	A	A
Olein	—	—	B	C	—	A	—	—	—	—	—	—	—	—	A
Oleum (Fuming sulfuric acid)	X	X	C	X	—	A	A	X	X	A	—	X	X	X	A
Olive Oil	—	—	A	C	C	A	A	A	A	A	A	A	A	A	A
Oxalic Acid	A	X	C	B	A	A	C	B	X	B/90%	B	A	A	A/50%	A
Ozone	—	C	X	B	A	A	A	A/10%	A/10%	A	A	X	X	A	A
Paint Thinner, DUCO	—	—	A	C	X	A	B	X	—	A	A	X	X	—	A
Paints & Solvents	—	—	X	X	—	A	—	X	—	A	A	—	—	—	A
Palm Oil	—	—	A	C	—	A	A	—	A	A	A	—	—	—	A
Palmitic Acid	—	B	B	C	B	A	B	B	B	A	—	A	A	A	A
Paraffins	—	—	A	—	—	A	—	A	—	A	A	A	A	—	A
Paraformaldehyde	—	—	B	B	—	A	C	A/10%	A	A	A	—	—	—	A
Paraldehyde	—	—	C	B	A	A	X	A	A	A	A	—	—	—	A
Peanut Oil	—	—	A	B	X	A	A	—	A	A	A	A/20'	A/20'	A	A
Pentachlorethane	—	—	X	X	—	A	A	X	A	A	A	—	—	—	A
Pentachlorophenol(PCP)	—	—	X	X	X	A	A	A	A	A	A	—	—	—	A
Pentane	—	B	A	B	X	A	A	A	B	B	—	—	—	—	A
Peppermint Oil	—	—	X	X	—	A	A	—	—	A	—	—	B	—	A
Perchloric Acid	X	X	X	B	B	A/70%	A	X	X	B	—	—	A	A	A
Perchloroethylene	X	X	X	X	X	A	A	X	B	A/90%	B	X	B	A	A
Petroleum Oil(Crude Oil)(Sour)	—	C	B	C	X	A	A	B	B	A	A	X	A	A	A
Phenethyl Alcohol	—	—	X	X	B	A	X	A	A	A	A	—	—	—	A
Phenol	C	X	X	C	C	A	A	B	A	B	A	C	C	A/38°	A
Phenol Sulfonic Acid	—	—	X	—	—	A	X	B	B	B	—	—	—	—	A
Phenyl Acetate	—	—	X	X	B	A	X	—	—	—	—	—	—	—	A
Phenyl Ethyl Ether	—	—	X	X	X	A	C	—	—	—	—	—	—	—	A
Phenylbenzene	—	—	X	X	—	A	A	—	—	—	—	—	—	—	A
Phenyl Hyrdazine	—	—	X	X	X	A	A	A	X	—	—	X	—	A/50°	A
Phorone(Diisopropylidene Acetone)	—	—	X	X	C	A	A	—	—	—	—	—	—	—	A
Phosphoric Acid 10%	A	—	A	B	A	A	A	X	X	A	—	A/50°	A	A	A
Phosphoric Acid 20%	B	—	C	B	A	A	A	X	X	A/100°	A	A/50°	A	A	A
Phosphoric Acid 50%	C	—	X	B	B	A	A	X	X	A	C	A/50°	A	A	A
Phosphorus Oxychloride	—	—	—	X	—	A	—	B	B	B	B	—	—	—	A
Phosphorus Trichloride	A	—	X	X	A	A	A	C	B	A	A	X	X	A	A
Photographic Developer	—	X	A	A	—	—	A	C	X	A	A	A	A	A	A

Name of Liquid	TPO							Aluminum				PPG GF			
	Santoprene®	TPEE Hytrel®	NBR Buna N	CR Neoprene	EPDM Nordel®	PTFE Teflon®	FKM Viton®	Al	Fe Cast Iron	SUS316 Stainless Steel	Hastelloy®	Polypropylene	PP Pure Polypropylene	PVDF Kynar®	PTFE Teflon®
Sodium Chlorate	—	—	A	B	A	A	A	B/70% 100*	B	B	B/70% 212*	A	A	A	A
Sodium Chloride	A	A	A	A	A	A	A	B	B/30%	A	A	A	A	A	A
Sodium Chromate	—	A	A	A	—	A	A	A/80% 100	A/60%	A/60%	A/60%	A	A	A	A
Sodium Cyanide	—	A	A	A	A	A	A	X	A	A	—	A	A	A	A
Sodium Dichromate	—	X/20%	—	B	A	A	A	—	—	—	—	A	A	A	A
Sodium Fluoride	—	—	A	A	A	A	A	B/30%	—	B/10%	B/10%	A	A	A	A
Sodium Hydroxide (Lye)	A	X	B	B	A	A	X	X	B/50%	A/50%	B/70% 100*	X	A	A	A
Sodium Hydroxide (Lye)	A	X	B	B	A	A	X	X	B/50%	A/50%	B/70% 100*	X	A	A	A
Sodium Hypochlorite	A/15%	X	X	B	C	A	B	X	X	X	B/10%	X	B	A	A
Sodium Metaphosphate	—	—	B	C	A	A	A	X	—	B	A	X	X	—	A
Sodium Metasilicate	—	—	A	A	—	—	A	B	—	A	A	A	A	A	A
Sodium Nitrate	A	B	C	B	A	A	A	A/90%	A/90%	A/90%	A/30%	A	A	A	A
Sodium Nitrite	—	—	A	X	—	A	A	A	A	A	A	A	A	A	A
Sodium Perborate	—	B	C	B	A	A	A	X	B/10%	A	B/10%	A	A	A	A
Sodium Peroxide	—	B	B	B	B	A	A	B/10%	A/90%	B/10%	B/10%	B	B	A	A
Sodium Phosphate (Tribasic)	A	B	B	B	A	A	A	X	B/75	B	A	A	A	A	A
Sodium Silicates	—	A	A	A	A	A	A	A	A	A	B	A	A	A	A
Sodium Sulfate (Salt Cake)	A	A	A	B	A	A	A	B/30%	B	A	A	A	A	A	A
Sodium Sulfide	—	A	A	A	A	A	A	A/30% 100*	B	A/30% 75*	B/50% 100*	A	A	A	A
Sodium Sulfite	—	A	A	A	A	A	A	A/30%	X	A/30%	B/30% 100*	A	A	A	A
Sodium Tetraborate	—	B	A	—	—	A	A	—	—	A	—	C	C	A	A
Sodium Thiosulfate	—	—	A	A	A	A	A	A	C	A/50	8/50	A	A	A	A
Sorghum	—	—	A	A	—	A	—	—	A	A	A	—	—	—	A
Soy Sauce	—	—	A	A	—	A	—	—	X	A	—	—	—	—	A
Soybean Oil	—	A	A	A	C	A	A	A	A	A	A	B	A	—	A
Sperm Oil(Whale Oil)	—	—	A	X	—	A	A	—	A	A	A	—	—	—	A
Stannic Chloride	—	B	A	B	B	A	A	X	C	A/10%	B	A	A	A	A
Stannous Chloride	—	B/15%	A	A	B	A	A	X	B	A/10%	A	A	A	A	A
Starch	—	B	A	A	B	A	C	A	C	A	A	A	A	—	A
Stearic Acid	—	B	B	B/70*	B	A	A	C	C	A	B	A	A	A	A
Stoddard Solvent	—	A	A	C	X	A	—	A	A	A	X	A	A	X	A
Styrene	—	X	X	X	X	A	A	A	A	A	A	—	X	A	A
Sucrose Solution	—	A	A	A	A	A	A	A	A	A	A	—	—	—	A
Sulfamic Acid	—	A	B	A	—	A	—	A/10%	X	X	—	X	—	X	A
Sulfite Liquors	—	B	A	B	C	A	A	—	—	—	A	—	—	—	A
Sulfur	A	A	X	B	A	A	A	A	A	A	B	A	A	A	A
Sulfur Chloride	—	C	C	X	X	A	A	B	X	B	A	X	C	A	A
Sulfur Dioxide	A	X	X	A	B	A	A	A	B	A/10%	A/80%	A	A	A	A
Sulfur Hexafluoride	—	A	B	A	A	A	A	—	—	—	—	—	—	—	A
Sulfur Trioxide	—	X	C	C	C	A	A	B	B	B	B	X	X	X	A
Sulfuric Acid 10%	A	X	B	A	A	A	A	X	X	X	A	A	A	A	A
Sulfuric Acid 25%	A	X	C	B	B	A	A	X	X	X	A	A	A	C	A
Sulfuric Acid 50%	A	X	C	B	B	A	A	X	X	X	A	A	A	C	A
Sulfuric Acid 60%	A	X	X	C	B	A	A	X	X	X	A	B	A	C	A
Sulfuric Acid 75%	B	X	X	X	C	A	A	X	C	X	A	C	A	C	A
Sulfuric Acid 95%	C	X	X	X	C	A	A	X	B	A	A	X	B	C	A
Sulfuric Acid Concentrated	—	X	X	X	C	A	B	X	B	B	A	X	C	A/50*	A
Sulfuric Acid Fuming	—	X	X	X	X	A	C	X	X	B	B	—	—	—	A
Sulfurous Acid	—	C	B	X	C	A	A	B	X	B	B	A	A	A	A
Tall Oil	—	—	A	B	X	A	A	X	B/100*	B	A	A	A	A	A
Tallow	—	—	A	—	—	A	A	A	—	A	—	B	B	—	A
Tannic Acid	A/10%	A/10%	C	B	C	A	A	A	A	A	B/10%	A	A	A	A
Tanning Liquors	—	—	A	B	—	A	—	A	—	A	A	A	A	—	A
Tar, Bituminous (Coal Tar)	—	B	B	C	X	A	A	A	—	A	A	A	A	—	A
Tartaric Acid	—	B	B	A	B	A	A	A/20%	X	A	A/90%	A	A	A	A
Terpenes	—	—	C	X	X	A	A	A	X	—	—	—	—	—	A
Terpineol	—	—	C	X	C	A	A	A	A	A	A	X	X	B/50*	A
Tertiary Butyl Alcohol	—	—	A	A	—	A	—	—	—	—	—	B	B	—	A
Tertiary Butyl Catechol	—	—	X	B	—	A	A	C	B	B	—	—	—	—	A
Tertiary Butyl Mercaptan	—	—	X	X	—	A	A	—	—	—	—	—	—	—	A
Tetra Bromoethane	—	—	X	X	—	A	A	X	—	—	—	X	X	—	A
Tetrabutyl Titanate	—	—	B	A	B	A	A	—	—	—	—	—	—	—	A
Tetrachlorodifluoroethane	—	—	X	X	—	A	—	—	—	—	—	—	X	—	A
Tetrachloroethene	X	—	X	X	X	A	A	X	A	C	A/90% 100*	X	X	A	A
Tetrachloroethylene	—	—	—	—	—	—	—	—	—	—	—	—	X	A	A
Tetraethyl Lead	—	—	B	X	X	A	B	B	A	A	—	A	A	A	A
Tetraethylene Glycol (TEG)	—	—	A	—	—	A	A	—	—	—	—	—	—	—	A
Tetrahydrofuran (THF)	—	C	X	X	C	A	X	—	—	—	—	C/38*	C	B/20*	A
Tetrahydronaphthalene	—	—	X	X	X	A	A	A	A	A	A	C	C	—	A
Thionyl Chloride	—	—	X	X	X	A	B	C	A	A	A/10%	B	B	X	A
Thiophene	—	—	X	X	X	A	C	—	—	—	—	—	—	—	A
Titanium Tetrachloride	—	—	C	X	X	A	A	X	A	B	B	B	B	B	A
Toluene	X	C	C	X	X	A	X	A	A	A	A	X	X	A	A
Toluene Diisocyanate	—	B	—	X	A	A	—	—	—	—	—	—	—	—	A
Toluidine	—	—	X	—	—	A	B	A	A	A	A	—	—	—	A
Tomato Pulp & Juice	—	—	A	—	—	A	—	A	A	A	A	A	A	A	A
Toothpaste	—	—	A	C	—	A	A	—	X	A	A	—	—	—	A
Transformer Oil (Petroleum)	—	—	B	C	X	A	A	A	A	A	A	B	B	—	A
Transmission Fluid (Type A)	—	B	A	C	X	A	A	A	A	A	A	—	—	—	A

Name of Liquid
Triacetin
Triallyl Phosphate
Triaryl Phosphate
Tributoxyl Ethyl Phosphate
Tributyl Mercaptan
Tributyl Phosphate
Trichloroacetic Acid (TCA)
Trichlorobenzenes
Trichloroethane
Trichloroethylene (Ex-Tri)(Hi-Tri)
Trichloropropane
Tricresyl Phosphate (Lindol)
Tridecyl Alcohol
Triethanol Amine(TEA)
Triethyl Aluminum (ATE)
Triethyl Amine
Triethyl Brate
Triethylene Glycol (TEG)
Trimethylene Glyco I
Trinitrotoluene (TNT)
Triocetyl Phosphate (TOP)
Tung Oil (Wood Oil)
Turpentine
Unsymmetrical Dimethyl Hydrazine (UDMH)
Urea
Urine
Valeric Acid
Vamish
Vanilla Extract
Vegetable Juices
Vegetable Oils
Vinegar
Vinyl Acetate
Vinyl Chloride
Walnut Oil
Water Distilled
Water Fresh
Waxes
Weed Killers
Whisky
White Oil (Mineral)(Petroleum)
White Sulfate Liquor
Wines
Wort,Distillery
Xylene
Xylidines
Zeolite
Zinc Acetate
Zinc Carbonate
Zinc Chloride
Zinc Hydrosulfite
Zinc Sulfate

TPO Santoprene®	TPEE Hytrel®	NBR Buna N	CR Neoprene	EPDM Nordel®	PTFE Teflon®	FKM Viton®
—	—	A	B	A	A	X
—	—	X	C	A	A	A
—	—	X	C	—	A	A
—	—	X	X	A	A	B
—	—	X	X	—	A	A
—	C	X	X	C	A	X
—	X	C	B	C	A	B
—	—	X	X	—	A	B
—	—	X	X	X	A	B
X	X	X	X	X	A	C
—	—	X	A	—	A	B
—	C	X	C	A	A	C
—	—	A	—	—	A	B
—	X	X	A	B	A	C
—	—	X	X	—	A	B
—	—	A	B	—	A	—
—	—	X	X	—	A	A
—	—	A	—	—	A	A
—	—	A	—	A	A	A
—	—	X	B	X	A	C
—	—	X	X	A	A	B
—	B	A	C	X	A	A
—	B	A	X	X	A	A
—	—	C	C	A	A	X
A/30%	B	B	B	—	A	A
A	—	A	X	—	A	A
—	—	X	X	A	A	—
—	—	B	C	X	A	A
—	—	A	X	—	A	X
—	—	A	C	—	A	—
—	—	B	C	A	A	A
A	C	C	B	A	A	A
—	—	X	B	—	A	X
—	—	X	X	C	A	A
—	—	A	B	—	A	A
A	—	A	C	A	A	A
A	A/22°	A	B	A	A	A
—	—	A	A	X	A	—
—	—	B	C	—	—	A
—	B	B	A	A	A	A
—	—	A	C	X	A	A
—	—	B	A	A	A	B
—	A	A	A	A	A	B
—	—	—	A	—	A	A
X	C	X	X	X	A	A
—	—	—	X	X	A	X
—	—	C	C	A	A	A
—	—	C	B	A	A	X
—	—	A	—	—	A	A
A	A	B	B	A	A	A
—	—	A	A	—	A	A
A	X	A	A	A	A	B

Al Aluminium	Fe Cast Iron	SUS316 Stainless Steel	Hastelloy®
B	—	—	—
—	—	—	—
—	—	—	—
—	—	—	—
A	A	A	—
X	X	X	B
X	A	A	B
X	A	A	A
X	B	A/90%75°	A
X	A	A	A
—	A	B	A
—	—	—	—
A	A	A	A
—	—	—	—
A	—	A	A
A	A	A	A
—	—	—	—
B	—	B/50%	—
A	A	A	A
A	—	—	—
A	—	A	—
—	—	A	—
C	—	A	—
A	B	A	A
C	X	A	A
B	A	A	A
X	A	A	A
—	—	—	—
A	C	A	A
A	A	A	A
A	—	A	A
X	—	A	—
A	X	A	A
—	—	A	A
B	C	A	B
C	X	A	A
A	B	A	A
A	B	B	A
B	B	—	—
—	—	A	A
C	—	—	—
B	B	B	B
A/10%	B	A/10%	A
X	—	A	—
B/20%	X	B	B/20%

PPG GF Polypropelene	PP Pure Polypropelene	PVDF Kynar®	PTFE Teflon®
—	—	—	A
B	B	A	A
—	—	—	A
—	—	—	A
—	—	—	A
C/38°	A	A/38°	A
B	B	B	A
—	—	—	A
X	—	A	A
X	B	A	A
X	X	—	A
B	B	X	A
—	—	—	A
A	A	X	A
—	—	—	A
C	C	A/50°	A
—	—	—	A
A	A	—	A
—	—	—	A
—	—	—	A
—	—	—	A
A	A	—	A
A	A	A	A
X	B	A	A
X	—	A	A
A	A	A	A
—	—	—	A
A	A	A	A
A	A	A	A
—	—	—	A
A	A	A	A
—	—	—	A
A	A	A	A
—	—	—	A
A	A	A	A
—	—	—	A
A	A	A	A
—	—	—	A
A	A	A	A
—	—	—	A
A	A	A	A
—	—	—	A
A	A	A	A



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