

COMPATIBILITY

CHEMICAL COMPATIBILITY

Chemical Compatibility Guide

The following information is intended to be used as a general guideline for pump material selection. The information accuracy of these ratings cannot be guaranteed, nor is it a complete list due to the extensive area of this field. Materials used in the pump and pumping systems must be chemically compatible. The data provided for the chemicals is at 70°F (21°C), unless otherwise noted. If your temperature differs from this, it may affect the compatibility of the fluid with the given pump materials by accelerating the reaction.

If you are unsure of the compatibility of your chemical, we recommend testing a sample of the material in question with the chemical.

Updated 7/2/13



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CHEMICALS	METALS					PLASTICS, ELASTOMERS & LEATHER																			
A: Excellent, B: Good, C: Fair to Poor, D: Not recommended - No Data	Aluminum	Carbon Steel	Cast/Ductile Iron	304 Stainless Steel	316 Stainless Steel	Acetal	Buna	CSM (Hypalon)	EPR, EPDM	Fluorocarbon	Fluoroelastomer (FKM)	Geolast (Buna & Polypropylene)	Hastelloy C	TPE	Leather	Nitrile (TS)	Nitrile (TPE)	Nylon	Polychloroprene	Polypropylene	PTFE	PVDF	Santoprene (EPDM & Polypropylene)	UHMWPE	Urethane
Acetaldehyde	B	D	C	A	A	A	D	C	A	D	D	D	A	B	B	D	D	B	D	C	A	D	B	B	D
Acetamide	A	D	D	D	A	A	B	B	A	B	B	A	A	D	-	A	A	B	B	A	A	D	A	A	D
Acetate Solvents	B	D	D	D	A	A	D	C	B	D	D	D	D	D	-	D	D	A	D	D	A	D	B	B	D
Acetic Acid	B	D	D	D	B	D	C	C	A	-	C	-	A	D	D	C	C	D	C	B	A	C	C	B	C
Acetic Acid — 20%	B	D	D	B	A	C	C	A	A	C	B	D	C	-	-	-	-	D	B	B	A	B	B	A	-
Acetic Acid — 30%	D	-	A	A	-	B	C	-	A	D	-	-	C	-	-	-	-	-	B	B	A	B	B	A	-
Acetic Acid — 50%	D	-	A	A	-	B	C	-	A	C	-	-	C	-	-	-	-	-	C	B	A	B	B	A	-
Acetic Acid — 80%	B	D	D	D	B	D	C	C	A	-	B	D	A	-	-	-	-	D	C	A	A	C	-	-	-
Acetic Acid — Glacial	B	D	D	C	A	D	D	C	B	D	D	B	A	C	-	-	-	D	D	C	A	A	D	B	-
Acetic Acid Vapors	A	-	-	-	A	-	-	-	-	-	-	-	-	D	D	-	-	D	-	-	A	D	-	-	-
Acetic Anhydride	D	D	D	D	B	D	D	A	D	D	D	D	A	C	B	D	D	D	B	D	A	D	D	D	B
Acetone	B	A	A	A	A	B	D	C	A	D	D	D	A	C	-	D	D	B	D	D	A	D	B	A	D
Acetone 120° F	-	-	-	-	-	B	-	-	-	-	-	-	-	-	-	-	-	B	-	A	A	D	-	A	-
Acetone 140° F	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	A	A	D	-	D	-
Acetone 70°F	A	-	B	A	A	-	D	-	A	-	D	-	-	C	-	-	-	A	-	A	A	D	A	A	-
Acetone Cyanohydrin	B	-	B	B	-	-	D	-	D	D	-	D	-	-	-	-	-	-	B	-	A	-	A	-	-
Acetonitrile (Methyl Cyanide)	A	A	A	A	A	A	C	-	A	D	D	D	B	-	-	D	D	A	D	D	A	B	A	-	B
Acetophenone	B	A	A	A	B	-	D	-	B	D	D	D	B	-	-	D	D	A	D	C	A	B	B	-	-
Acetyl Acetone	D	-	B	B	-	-	D	-	A	D	D	D	-	-	-	D	D	-	D	-	A	-	B	-	D
Acetyl Bromide	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	D	-	-	A	-	-	-	-
Acetyl Chloride	D	B	B	B	B	D	D	D	D	B	B	D	A	D	-	D	D	D	D	D	A	A	B	-	D
Acetyl Salicylic Acid (Aspirin)	D	-	B	B	-	-	-	-	B	-	A	-	-	-	-	A	-	-	D	-	A	-	C	A	-
Acetylene	A	A	A	A	A	A	B	B	A	-	A	B	A	B	A	A	A	B	B	D	A	A	-	-	D
Acetylene Tetrabromide	D	-	A	-	-	-	D	-	-	A	-	D	-	-	-	-	-	-	D	-	A	-	D	-	-
Acid (Concentrated)	-	-	-	-	-	-	-	-	B	-	A	-	-	-	-	-	-	-	-	-	A	-	-	-	-
Acid (Mild)	-	-	-	-	-	-	A	-	B	-	A	-	-	-	-	-	-	-	-	-	A	-	-	-	-
Acid Mine Water	-	-	-	-	-	A	-	-	-	-	-	-	-	-	-	-	-	A	-	A	A	A	-	A	-
Acrolein (Acryaidethyde)	B	-	B	B	-	-	B	-	A	A	B	B	-	D	-	C	-	-	D	-	A	-	A	-	D
Acrylonitrile	B	A	A	A	A	-	D	C	D	D	D	D	B	D	-	D	D	B	D	B	A	B	D	-	D
Adipic Acid	B	A	B	B	B	B	C	-	A	A	A	A	A	D	-	A	B	A	D	B	A	B	B	A	-
Aero Lubriplate	A	A	A	A	A	A	A	-	D	-	A	-	A	D	-	A	A	-	A	A	A	A	C	-	-
Aerosafe 1Ac	-	-	-	-	-	A	A	-	D	-	A	-	-	-	-	-	-	-	B	-	A	-	-	-	-

CHEMICAL COMPATIBILITY

CHEMICALS	METALS					PLASTICS, ELASTOMERS & LEATHER																			
A: Excellent, B: Good, C: Fair to Poor, D: Not recommended - No Data	Aluminum	Carbon Steel	Cast/Ductile Iron	304 Stainless Steel	316 Stainless Steel	Acetal	Buna	CSM (Hypalon)	EPR, EPDM	Fluorocarbon	Fluoroelastomer (FKM)	Geolast (Buna & Polypropylene)	Hastelloy C	TPE	Leather	Nitrile (TS)	Nitrile (TPE)	Nylon	Polychloroprene	Polypropylene	PTFE	PVDF	Santoprene (EPDM & Polypropylene)	UHMWPE	Urethane
Aerosafe 2300	A	A	A	A	A	A	D	-	A	-	D	-	-	B	-	D	D	-	D	-	A	-	B	-	A
Aerosafe 2300F	A	A	A	A	A	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Aerosafe 2300W	A	-	A	A	-	A	D	-	A	-	D	-	-	A	-	D	D	-	D	-	A	-	B	-	D
Aeroshell 17 Grease	A	A	A	A	A	A	A	-	D	-	A	-	-	D	-	A	A	-	B	-	A	-	D	-	A
Aeroshell 1Ac	A	A	A	A	A	A	-	-	D	-	A	-	A	D	-	A	A	-	B	A	A	B	D	-	B
Aeroshell 750	A	A	A	A	A	A	B	-	D	-	A	-	-	D	-	B	C	-	D	-	A	-	D	-	A
Aeroshell 7A Grease	A	A	A	A	A	A	A	-	D	-	A	-	-	D	-	A	A	-	B	-	A	-	D	-	D
Alcohol	A	A	A	A	A	B	A	-	B	-	A	-	-	B	A	-	-	D	-	B	A	A	A	A	-
Alcohol: Allyl	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Alcohol: Amyl	B	B	B	A	A	A	B	A	A	-	B	B	A	A	-	B	B	A	B	B	A	A	A	A	D
Alcohol: Benzyl	B	B	B	B	B	A	D	C	C	-	A	-	A	D	-	D	D	D	C	A	A	A	A	A	C
Alcohol: Butyl	B	B	B	A	A	A	C	A	A	-	A	-	A	D	-	A	B	D	A	B	A	A	A	A	D
Alcohol: Diacetone	B	A	B	A	A	A	D	D	B	-	D	-	A	D	-	D	D	A	D	B	A	A	C	-	B
Alcohol: Ethyl	B	B	B	A	A	A	C	A	A	-	A	-	A	A	-	A	A	B	A	A	A	A	B	A	D
Alcohol: Hexyl	A	A	A	A	A	A	A	B	C	-	C	-	A	D	-	A	A	A	B	A	A	A	B	-	D
Alcohol: Isobutyl	B	C	C	A	A	A	C	A	B	-	A	-	A	B	-	C	C	B	A	A	A	A	A	-	D
Alcohol: Isopropyl	B	A	C	B	B	A	C	A	B	-	A	-	A	A	-	C	C	D	B	A	A	A	B	-	D
Alcohol: Methyl	B	A	A	A	A	A	A	A	B	-	D	-	A	B	-	A	A	B	A	A	A	A	A	A	D
Alcohol: Octyl	A	A	A	A	A	A	B	B	A	-	B	-	C	D	-	B	-	A	B	-	A	-	B	-	D
Alcohol: Propyl	A	A	A	A	A	A	A	A	B	-	A	-	A	D	-	A	A	B	A	A	A	A	A	C	D
Alcohols R-OH	-	-	-	-	-	A	-	-	-	-	-	-	A	-	-	-	-	A	-	A	-	A	-	A	-
Alkaline Solutions	-	-	-	A	A	A	A	-	A	-	A	-	-	-	-	-	-	-	A	-	A	-	-	A	-
Alkazene	-	-	-	-	-	-	D	-	-	A	A	-	-	D	-	D	D	-	D	-	A	-	D	B	D
Allyl Alcohol	B	A	A	A	A	-	A	-	A	B	B	-	A	D	-	A	A	A	A	B	A	A	B	A	B
Allyl Bromide	D	-	A	-	-	-	D	-	D	B	B	-	-	D	-	D	D	-	D	-	A	-	-	-	A
Allyl Chloride	D	-	D	B	B	-	D	-	D	B	B	D	-	D	-	B	C	-	D	A	A	A	-	B	D
Almond Oil (Artificial)	-	-	-	B	B	-	D	-	B	D	D	-	-	D	-	D	D	-	D	-	A	-	C	-	D
Alum (Aluminum Potassium Sulfate)	C	-	D	B	-	A	A	-	A	D	A	-	B	D	-	A	A	C	A	A	A	A	A	A	D
Aluminum Acetate (Burow's Solution)	A	-	D	C	B	A	C	-	A	D	D	D	B	-	-	B	-	A	C	A	A	-	A	A	D
Aluminum Ammonium Sulfate	-	-	-	-	-	-	-	-	A	-	A	-	-	-	-	A	A	-	A	A	A	A	B	-	-
Aluminum Bromide	-	-	-	-	-	-	A	-	A	-	A	A	-	D	-	A	B	-	A	-	A	A	B	-	D
Aluminum Chloride	D	D	D	D	C	B	A	B	A	A	A	A	A	C	-	A	A	D	A	A	A	A	A	A	B

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Aluminum Chloride 20%	D	D	D	D	C	C	A	B	A	-	A	-	A	-	-	-	-	D	A	A	A	A	-	-	-
Aluminum Chlorohydroxide	D	D	D	D	-	-	-	-	-	-	-	-	-	-	-	-	-	A	-	-	A	-	-	-	-
Aluminum Fluoride	B	D	D	D	D	D	A	A	B	A	A	A	B	-	-	A	B	B	A	A	A	A	A	A	C
Aluminum Hydroxide	B	A	D	B	C	A	B	A	A	C	A	A	B	D	-	A	A	B	A	A	A	A	A	A	B
Aluminum Nitrate	D	-	D	A	A	B	A	A	A	A	A	A	B	-	-	A	A	B	A	A	A	A	A	A	C
Aluminum Phosphate	-	-	-	A	A	A	A	-	A	A	A	-	-	-	-	A	A	-	A	A	A	A	A	-	D
Aluminum Potassium Sulfate	C	D	D	D	B	C	A	A	A	A	A	A	C	D	-	A	A	D	A	A	A	A	A	A	D
Aluminum Potassium Sulfate 10%	C	D	D	A	A	C	A	A	A	-	A	-	C	-	-	-	-	D	A	A	A	B	-	-	-
Aluminum Sodium Sulfate (Soda Alum)	-	-	-	-	-	-	A	-	A	A	-	-	-	-	-	-	-	-	A	-	A	-	-	-	-
Aluminum Sulfate	C	D	D	B	B	B	A	A	A	A	A	A	B	B	A	A	A	A	A	A	A	A	A	A	B
Alums	A	D	D	-	A	-	A	-	A	-	D	A	B	D	-	-	-	A	B	A	A	A	-	-	-
Amines	B	D	D	A	A	D	D	D	C	D	D	D	B	D	D	D	D	D	D	B	A	-	A	A	D
Aminoethanol	-	-	-	-	-	D	-	-	-	-	-	-	-	-	-	-	-	A	-	A	A	C	-	-	-
Ammonia 10%	A	A	A	A	A	D	A	D	A	-	D	A	A	-	-	-	-	A	A	A	A	A	-	-	-
Ammonia Anhydrous	A	A	A	A	A	D	B	-	A	D	D	-	A	D	D	-	-	B	B	A	A	A	A	A	-
Ammonia Aqueous	-	-	-	-	-	B	-	-	-	-	-	-	-	-	-	-	-	B	-	A	A	A	-	A	-
Ammonia Gas — Cold	-	-	-	-	-	-	A	-	-	A	-	-	-	-	-	-	-	-	A	-	A	-	A	A	-
Ammonia Gas — Hot	-	-	-	-	-	-	C	-	-	D	-	-	-	-	-	-	-	-	B	-	A	-	A	A	-
Ammonia Liquids	D	-	A	A	-	D	-	-	A	-	D	-	B	-	-	B	B	-	A	A	A	A	A	D	B
Ammonia Liquors	A	-	A	A	-	-	-	-	-	D	-	-	-	-	-	-	-	-	A	-	A	-	A	-	-
Ammonia Nitrate	C	A	A	A	A	C	C	D	A	-	D	D	B	-	-	A	A	D	C	A	A	A	A	-	B
Ammonia, anhydrous	B	A	D	B	A	D	C	D	A	-	D	D	B	D	-	B	B	B	A	A	A	D	A	A	-
Ammonia, Gas (Cold)	-	-	-	-	-	A	A	-	A	-	D	-	-	D	-	A	B	-	A	B	A	D	A	-	B
Ammonia, Gas (Hot)	-	-	-	-	-	-	C	-	-	-	D	-	-	-	-	-	-	-	B	-	A	-	-	-	-
Ammonia, Liquids	D	-	A	-	A	-	B	-	-	-	D	-	B	-	-	-	-	B	A	A	A	A	-	-	-
Ammonia, Water	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Ammonium Acetate	B	-	A	B	A	C	B	-	A	A	A	B	-	D	-	A	A	A	A	A	A	-	A	A	D
Ammonium Bicarbonate	B	-	B	-	-	-	A	-	B	A	D	-	-	-	-	A	B	-	A	-	A	-	B	A	C
Ammonium Bifluoride	D	D	D	D	B	D	B	-	A	-	A	B	B	-	-	A	A	-	D	A	A	A	A	-	D
Ammonium Carbonate	C	B	C	B	B	D	D	-	B	A	B	D	B	-	A	B	C	A	B	A	A	A	A	A	A
Ammonium Casenite	-	-	-	A	A	D	-	-	-	-	-	-	-	-	-	-	-	-	A	-	A	-	A	-	-
Ammonium Chloride	D	D	D	C	C	D	B	A	A	A	A	B	D	A	-	-	-	C	B	A	A	A	A	A	-
Ammonium Chloride 1%	C	-	D	C	-	A	-	-	A	-	A	-	A	A	-	B	A	-	A	A	A	A	A	A	B
Ammonium Cupric Sulfate	-	-	-	-	-	-	A	-	-	A	-	-	-	-	-	-	-	-	-	-	A	-	-	-	-

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Ammonium Dichromate	A	-	A	-	-	-	A	-	A	-	-	A	-	-	-	A	B	-	A	-	A	-	A	-	-
Ammonium Diphosphate	-	-	-	-	-	-	-	-	A	-	A	-	-	D	-	A	-	-	A	-	A	-	A	-	-
Ammonium Fluoride	D	A	D	D	A	-	B	-	A	A	A	-	A	-	-	B	B	A	B	B	A	A	B	A	-
Ammonium Hydroxide	C	D	D	B	A	D	D	A	A	B	B	B	B	D	B	B	B	C	B	A	A	A	A	A	D
Ammonium Metaphosphate	B	-	B	B	-	-	A	-	A	A	-	-	A	-	-	-	-	-	A	A	A	A	-	A	-
Ammonium Nitrate	B	B	D	A	A	B	A	A	A	A	B	A	B	B	A	A	A	C	B	A	A	A	A	A	A
Ammonium Nitrite	-	-	-	A	-	-	A	-	A	-	A	-	-	-	-	A	A	-	A	A	A	A	A	A	D
Ammonium Oxalate	-	D	D	A	A	B	D	-	A	-	-	A	A	-	-	-	-	-	A	A	-	-	A	A	-
Ammonium Oxalate - 5% Sol.	-	-	D	A	-	B	-	-	A	-	-	-	A	-	-	A	B	-	A	-	A	-	A	A	-
Ammonium Persulfate	D	D	D	A	B	D	D	A	B	A	A	D	B	-	-	D	D	D	A	A	A	A	A	A	D
Ammonium Phosphate	B	-	D	A	A	B	A	-	A	-	A	-	A	B	-	A	A	D	A	A	A	A	A	B	B
Ammonium Phosphate, Dibasic	B	D	D	B	C	B	A	A	A	A	A	A	B	-	-	-	-	D	A	A	A	A	A	-	-
Ammonium Phosphate, Monobasic	D	D	D	B	C	B	A	A	A	A	A	A	B	B	-	-	-	B	A	A	A	A	A	A	-
Ammonium Phosphate, Tribasic	D	D	D	B	B	B	A	A	A	A	A	A	B	-	-	-	-	B	A	A	A	A	A	-	-
Ammonium Sulfamate	-	-	-	-	-	-	-	-	A	-	A	-	-	B	-	A	A	-	A	-	A	-	A	-	A
Ammonium Sulfate	D	D	D	B	B	B	A	A	A	A	D	A	B	C	-	A	A	B	A	A	A	A	A	A	A
Ammonium Sulfide	B	-	-	B	-	-	A	-	A	A	D	A	A	-	-	A	-	-	A	-	A	-	-	A	B
Ammonium Sulfite	D	D	D	B	B	D	A	A	A	A	D	A	A	B	-	A	A	A	A	A	A	-	A	D	D
Ammonium Sulphate 1% - 5%	B	-	C	A	-	A	-	-	-	-	D	-	B	C	-	A	A	-	A	A	A	A	-	A	B
Ammonium Thiocyanate	C	-	C	A	-	-	A	-	A	A	A	-	A	-	-	A	-	-	A	-	A	A	-	A	-
Ammonium Thiophosphate	-	-	-	-	-	-	-	-	A	-	A	-	-	D	-	A	A	-	A	-	A	-	A	-	-
Ammonium Thiosulfate	A	D	D	A	A	B	A	-	A	A	A	A	-	-	-	A	A	-	A	-	A	-	A	-	-
Amyl Acetate (Banana Oil)	B	C	C	A	A	D	D	D	A	D	D	-	B	C	B	D	D	C	D	D	A	A	D	B	D
Amyl Alcohol	B	-	-	A	-	A	B	-	-	B	-	-	A	-	-	-	-	A	B	B	A	A	A	A	-
Amyl Alcohol	B	B	C	A	A	A	B	A	A	A	B	-	B	A	-	B	B	B	B	B	A	A	B	A	D
Amyl Borate	-	-	-	-	-	-	A	-	D	A	A	-	-	-	-	B	-	-	B	-	A	-	B	-	D
Amyl Chloranaphthalene	-	-	-	-	-	-	-	-	D	-	A	-	-	-	-	B	C	-	D	-	A	-	C	-	D
Amyl Chloride (Chloropentane)	D	A	A	A	A	A	D	D	D	A	B	D	B	D	-	D	D	D	D	D	A	A	C	D	C
Amyl Chloronapthalene	-	-	-	-	-	-	B	-	-	A	A	-	-	-	-	-	-	-	D	-	A	-	C	-	-
Amyl Naphthalene	-	-	-	-	-	-	D	-	D	A	A	-	-	D	-	D	D	-	D	-	A	-	C	-	D
Amyl Napthalene	-	-	-	-	-	-	D	-	-	-	A	-	-	-	-	-	-	-	D	-	A	-	-	-	-
Amyl Phenol	A	-	A	A	-	-	D	-	-	A	A	-	A	-	-	D	-	-	-	-	A	-	C	-	-
AN-0-3 Grade M	-	-	-	-	-	-	-	-	B	-	A	-	-	D	-	A	B	-	D	-	A	-	B	-	B
AN-0-366	-	-	-	-	-	-	-	-	C	-	A	-	-	D	-	A	B	-	D	-	A	-	-	-	D

CHEMICAL COMPATIBILITY

CHEMICALS	METALS					PLASTICS, ELASTOMERS & LEATHER																			
A: Excellent, B: Good, C: Fair to Poor, D: Not recommended - No Data	Aluminum	Carbon Steel	Cast/Ductile Iron	304 Stainless Steel	316 Stainless Steel	Acetal	Buna	CSM (Hypalon)	EPR, EPDM	Fluorocarbon	Fluoroelastomer (FKM)	Geolast (Buna & Polypropylene)	Hastelloy C	TPE	Leather	Nitrile (TS)	Nitrile (TPE)	Nylon	Polychloroprene	Polypropylene	PTFE	PVDF	Santoprene (EPDM & Polypropylene)	UHMWPE	Urethane
AN-0-6	-	-	-	-	-	-	-	-	A	-	A	-	-	D	-	A	B	-	A	-	A	-	-	-	D
Anderol, L-774 (Di-Ester)	-	-	-	-	-	-	-	-	D	-	A	-	-	-	-	A	-	-	D	-	A	-	-	-	D
Anderol, L-826 (Di-Ester)	-	-	-	-	-	-	-	-	D	-	A	-	-	D	-	B	D	-	D	-	A	-	D	-	D
Anderol, L-829 (Di-Ester)	-	-	-	-	-	-	-	-	D	-	A	-	-	D	-	B	D	-	D	-	A	-	D	-	D
ANG-25 (Di-Ester Base) (TG7449)	-	-	-	-	-	-	-	-	D	-	A	-	-	-	-	B	D	-	D	-	A	-	D	-	D
ANG-25 (Glyceral Ester)	-	-	-	-	-	-	-	-	A	-	A	-	-	-	-	B	D	-	B	-	A	-	-	-	D
Anhydrous Hydrazine	-	-	-	-	-	-	-	-	B	-	D	-	-	-	-	D	D	-	B	-	A	-	-	-	D
Anhydrous Hydrogen Fluoride	-	-	-	-	-	-	-	-	A	-	D	-	-	-	-	D	D	-	-	-	A	-	C	-	D
Aniline	C	C	C	A	B	B	D	D	D	B	D	-	B	D	-	D	D	C	D	C	A	C	B	C	D
Aniline Dyes	B	-	C	B	B	D	C	-	C	B	A	D	-	D	-	C	D	-	C	-	A	-	B	C	D
Aniline Hydrochloride	D	D	D	D	D	-	D	-	B	B	B	D	D	-	-	C	D	D	D	D	A	B	A	C	D
Aniline Sulfite	-	-	-	C	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Animal Fats & Oils	A	A	D	A	A	A	A	-	B	A	A	-	A	B	-	A	B	-	C	A	A	A	C	A	C
Anisole (Methylphenyl Ether)	B	-	B	B	-	-	-	-	-	D	-	-	B	-	-	-	-	-	D	-	A	-	-	C	-
Ansul Ether	-	-	-	-	-	-	C	-	C	D	D	-	-	D	-	C	D	-	D	-	A	-	D	-	B
Anthraquinone	B	-	B	B	-	-	-	-	C	-	D	-	A	D	-	C	D	-	D	-	A	-	D	-	B
Anti-Freeze (Alcohol Base)	A	A	A	A	A	D	A	-	A	A	A	-	A	B	-	-	-	D	C	D	A	-	A	-	-
Anti-Freeze (Glycol Base)	A	A	A	A	A	B	A	-	A	A	A	A	A	B	-	A	A	-	B	A	A	A	A	A	B
Antimonty Trichloride	B	-	A	A	-	-	-	-	B	-	A	-	B	D	-	B	-	-	C	A	A	A	A	A	D
Antimony Chloride	B	-	A	A	-	-	-	-	A	-	B	-	B	D	-	B	B	-	D	A	A	A	A	A	-
Antimony Pentachloride	A	-	A	A	-	-	D	-	-	-	-	D	A	-	-	-	-	-	-	-	A	-	-	A	-
Antimony Trichloride	D	-	D	D	D	-	B	-	B	A	A	B	B	-	-	-	-	D	-	A	A	A	-	A	-
AN-VV-0-366b Hydr. Fluid	-	-	-	-	-	-	-	-	D	-	A	-	-	D	-	A	D	-	C	-	A	-	D	-	D
Aqua Regia (80%, Hci, 20% Hno3)	D	D	D	D	D	D	D	C	D	B	C	D	D	D	-	D	D	D	D	D	A	A	D	B	D
Aresenic Acid	D	-	D	A	-	D	-	-	A	-	A	-	B	D	-	A	A	-	B	A	A	A	A	A	C
Aresenic Trichloride	D	-	D	D	-	D	-	-	D	-	A	-	B	D	-	A	B	-	A	-	A	-	B	-	-
Argon	-	-	-	-	-	-	-	-	A	-	A	-	-	A	-	A	A	-	D	-	A	-	A	-	A
Arochlor 1248	A	B	B	B	B	-	D	D	B	-	A	D	A	C	-	-	-	B	D	D	A	-	-	-	-
Aroclor	A	-	B	B	B	-	C	-	D	A	A	-	A	C	-	D	D	A	D	D	A	-	D	-	B
Aromatic Fuel 50%	-	-	-	-	-	-	-	-	D	-	A	-	-	-	-	A	-	-	D	-	A	-	C	-	D
Aromatic Hydrocarbons	A	A	B	A	C	A	D	D	D	A	A	D	-	C	-	D	D	A	D	D	A	-	C	-	D
Aromatic Solvents (Benzene Etc.)	A	-	B	A	-	-	C	-	D	B	-	-	B	-	-	-	-	-	D	-	A	-	-	-	-
Arsenic Acid	D	D	D	B	A	D	B	A	A	A	A	A	B	-	B	-	-	D	A	A	A	A	A	-	-
Arsenic Salts	-	-	-	-	-	-	-	-	-	-	A	-	-	B	-	-	-	A	-	-	-	-	-	-	-

CHEMICAL COMPATIBILITY

CHEMICALS	METALS					PLASTICS, ELASTOMERS & LEATHER																			
A: Excellent, B: Good, C: Fair to Poor, D: Not recommended - No Data	Aluminum	Carbon Steel	Cast/Ductile Iron	304 Stainless Steel	316 Stainless Steel	Acetal	Buna	CSM (Hypalon)	EPR, EPDM	Fluorocarbon	Fluoroelastomer (FKM)	Geolast (Buna & Polypropylene)	Hastelloy C	TPE	Leather	Nitrile (TS)	Nitrile (TPE)	Nylon	Polychloroprene	Polypropylene	PTFE	PVDF	Santoprene (EPDM & Polypropylene)	UHMWPE	Urethane
Arsenic Trichloride	D	-	D	D	D	-	C	-	D	D	D	D	B	-	-	-	-	-	A	-	A	-	B	A	-
Ascorbic Acid	A	-	D	A	-	-	-	-	-	A	-	-	-	-	-	-	-	-	-	-	A	-	-	-	-
Askarel	-	-	-	A	-	-	B	-	D	C	A	B	-	D	-	B	C	-	D	-	A	-	D	-	D
Asorbic Acid	A	-	D	A	-	-	-	-	-	-	-	-	-	-	-	-	-	-	A	-	A	-	-	-	-
Asphalt	C	A	B	B	A	B	B	D	D	-	A	B	-	B	A	B	B	A	D	B	A	A	B	-	B
Asphalt Emulsions	B	-	A	A	A	-	-	-	D	-	A	-	A	B	-	B	B	C	B	-	A	A	B	A	B
Asphalt Hydrocarbons	A	-	B	A	-	B	B	-	D	A	-	-	-	-	-	-	-	A	C	A	A	A	B	-	-
Asphalt Sealer	-	-	-	-	-	-	-	-	-	-	-	D	-	-	-	-	-	-	-	-	-	-	-	-	-
Asphalt Topping	A	-	A	A	-	D	-	-	D	-	A	-	A	B	-	B	B	-	B	D	A	D	B	A	B
Asphalt Topping Hydrocarbons	-	-	A	A	-	-	C	-	-	C	-	-	-	-	-	-	-	-	A	-	A	-	-	-	-
ASTM — Ref #1 Oil (High Aniline)	A	-	A	A	-	A	A	-	D	A	A	A	A	A	-	A	C	-	B	-	A	-	C	A	B
ASTM — Ref #2 Oil (Medium Aniline)	A	-	A	A	-	A	A	-	D	A	A	A	A	A	-	A	-	-	B	-	A	-	C	A	D
ASTM — Ref #3 Oil (Low Aniline)	A	-	A	A	-	A	A	-	D	A	A	A	A	A	-	A	C	-	C	-	A	-	C	A	D
ASTM — Ref #4 Oil (High Aniline)	A	-	A	A	-	A	B	-	D	A	A	B	A	D	-	B	-	-	D	-	A	-	-	A	D
ASTM — Ref Motor Fuel A (Aliphatic)	A	-	A	A	-	-	A	-	D	A	A	A	A	A	-	A	B	-	B	-	A	-	B	-	D
ASTM — Ref Motor Fuel B (30% Aromatic)	A	-	A	A	-	-	A	-	D	A	A	A	A	A	-	D	B	-	D	-	A	-	C	-	D
ASTM — Ref Motor Fuel C (50% Aromatic)	A	-	A	A	-	-	B	-	D	A	A	B	A	A	-	B	C	-	D	-	A	-	C	-	D
Atlantic Dominion F	-	-	-	-	-	-	-	-	D	-	A	-	-	D	-	B	-	-	B	-	A	-	C	-	D
Atmosphere, Industrial	A	-	C	B	A	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Atmosphere, Marine	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Atmosphere, Rural	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Aurex 903R (Mobile)	-	-	-	-	-	-	-	-	D	-	A	-	-	D	-	A	-	-	B	-	A	-	-	-	A
Automatic Brake Fluid	A	A	A	A	A	A	D	-	A	-	D	-	-	-	-	-	-	-	B	-	A	-	C	-	-
Automatic Transmission Fluid	A	A	A	A	A	A	A	-	D	-	A	-	A	A	-	A	-	-	B	-	A	-	D	-	B
Automotive Gasoline (Standard)	A	A	A	A	A	A	A	-	D	-	A	-	-	-	-	-	-	-	D	-	A	-	-	-	-
Aviation Gasoline	A	A	A	A	A	-	B	-	D	A	A	A	A	D	-	A	B	-	C	-	A	-	-	-	D
Banana Oil	-	-	-	A	A	A	-	-	-	-	-	-	-	-	-	-	-	-	-	-	A	-	-	-	-
Barbeque Sauce	-	D	D	A	A	-	A	-	-	-	-	A	-	-	-	-	-	-	A	-	A	-	-	-	-
Bardol B	-	-	-	-	-	-	-	-	D	-	A	-	-	D	-	D	D	-	-	-	A	-	D	-	-
Barium Carbonate	D	A	B	B	B	A	A	-	A	A	A	A	B	-	A	A	A	B	A	A	A	A	A	B	B
Barium Chloride	D	C	D	B	C	A	A	A	A	-	A	A	B	B	-	A	A	B	A	A	A	A	A	B	A
Barium Cyanide	C	C	C	A	A	B	C	A	A	A	A	D	A	-	-	C	D	A	C	D	A	-	A	-	-
Barium Hydroxide	D	D	D	B	B	D	A	A	A	A	A	A	B	B	B	A	A	B	A	B	A	A	A	A	A
Barium Nitrate	B	A	A	B	B	B	A	-	A	-	A	A	A	-	-	A	A	B	A	A	A	A	A	B	B

CHEMICAL COMPATIBILITY

CHEMICALS	METALS					PLASTICS, ELASTOMERS & LEATHER																			
A: Excellent, B: Good, C: Fair to Poor, D: Not recommended - No Data	Aluminum	Carbon Steel	Cast/Ductile Iron	304 Stainless Steel	316 Stainless Steel	Acetal	Buna	CSM (Hypalon)	EPR, EPDM	Fluorocarbon	Fluoroelastomer (FKM)	Geolast (Buna & Polypropylene)	Hastelloy C	TPE	Leather	Nitrile (TS)	Nitrile (TPE)	Nylon	Polychloroprene	Polypropylene	PTFE	PVDF	Santoprene (EPDM & Polypropylene)	UHMWPE	Urethane
Barium Sulfate	D	B	B	B	B	B	A	A	A	A	A	A	A	D	A	A	A	B	A	B	A	A	A	A	A
Barium Sulfide	D	D	D	B	B	A	A	A	A	A	A	A	A	-	A	A	A	B	A	B	A	A	A	B	A
Bayol 35	-	-	-	-	-	-	-	-	D	-	A	-	-	-	-	D	D	-	A	-	A	-	D	-	-
Bayol D	-	-	-	-	-	-	-	-	D	-	A	-	-	-	-	D	D	-	A	-	A	-	D	-	-
Beef Extract	-	-	D	A	-	-	A	-	-	A	A	-	-	-	-	A	A	-	A	-	A	-	A	-	-
Beer	A	D	D	A	A	A	C	A	A	A	A	A	A	B	A	-	-	B	A	B	A	A	A	A	-
Beer (Alcohol Ind.)	A	A	A	A	A	A	B	-	A	-	A	-	-	-	A	-	-	A	A	-	A	-	-	-	-
Beer (Beverage Ind.)	A	D	D	A	A	A	A	-	A	-	A	-	-	-	A	-	-	A	A	-	A	-	-	-	-
Beet Sugar	-	-	-	-	-	-	-	-	-	-	-	A	-	-	-	-	-	-	-	-	-	-	-	-	-
Beet Sugar Liquids	A	A	A	A	A	B	A	A	A	-	A	-	-	-	-	-	-	A	B	B	A	A	-	-	-
Beet Sugar Liquors	A	B	B	A	A	A	A	-	A	-	A	-	-	B	A	-	-	A	B	-	A	-	-	-	-
Beet Sugar Liquors (Sucrose)	A	-	B	A	-	B	A	-	A	A	-	-	-	-	-	-	-	A	A	A	A	A	A	-	-
Benzaldehyde	B	A	A	B	B	A	D	D	B	D	D	D	A	B	-	D	D	D	D	D	A	A	D	C	D
Benzene	B	A	B	B	B	A	D	D	D	B	B	D	B	C	B	D	C	A	D	D	A	B	D	D	D
Benzene Hot	B	-	B	B	B	C	-	-	-	-	-	-	-	D	-	-	-	D	-	D	A	B	D	D	-
Benzene Sulfonic Acid	D	-	D	B	B	C	D	-	D	A	B	D	B	B	-	D	D	D	B	D	A	B	A	D	D
Benzoic Acid	B	D	D	B	B	B	D	D	D	A	A	A	B	D	A	D	D	D	D	D	A	A	A	A	D
Benzol	B	A	B	A	A	A	D	D	D	-	D	-	B	C	-	D	D	D	D	D	A	A	C	D	D
Benzol, Alcohol	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Benzonitrile	-	-	-	D	D	-	-	-	-	-	-	-	C	-	-	-	-	A	-	-	A	-	-	-	-
Benzoyl Chloride	D	-	A	B	-	-	D	-	D	B	-	-	B	-	-	-	-	-	D	-	A	A	-	-	-
Benzyl	-	-	-	-	-	-	-	-	-	-	-	D	-	-	-	-	-	-	-	-	-	-	-	-	-
Benzyl Acetate	A	-	A	A	-	-	D	-	-	D	D	D	B	D	-	D	-	-	-	-	A	-	-	C	-
Benzyl Alcohol (Phenylcarbinol)	B	-	-	A	-	-	D	-	-	A	-	-	A	-	-	-	-	-	B	A	A	A	A	A	-
Benzyl Alcohol	A	A	A	A	A	-	D	-	C	A	A	-	B	C	-	D	D	D	C	A	A	A	D	A	D
Benzyl Benzoate	A	-	B	B	B	-	D	-	B	A	A	D	B	D	-	D	-	-	D	-	A	-	C	-	D
Benzyl Chloride	D	A	D	C	B	A	D	D	D	A	C	D	C	D	-	D	D	A	D	D	A	C	C	A	D
Benzyl Dichloride (Benzal Chloride)	D	-	B	A	-	-	D	-	-	-	-	D	B	-	-	-	-	-	-	-	A	-	-	-	-
Bichloride of Mercury	-	-	-	-	-	-	-	-	A	-	A	-	-	-	-	A	B	-	A	-	A	-	B	-	A
Biphenyl (Diphenyl)	A	-	A	-	-	-	D	-	D	A	A	D	-	-	-	D	D	-	D	-	A	-	D	-	D
Bismuth Subcarbonate	-	-	-	B	-	-	A	-	A	A	-	A	-	D	-	A	-	-	D	-	A	-	D	A	D
Black Point 77	-	-	-	B	-	-	-	-	A	-	A	-	-	-	-	A	-	-	C	-	A	-	-	-	C
Black Sulfate Liquor	C	-	B	A	-	-	B	-	B	A	B	B	B	B	-	B	-	-	B	-	A	A	-	A	D
Blast Furnace Gas	-	-	-	-	-	D	C	-	D	A	A	-	-	B	-	D	-	-	D	-	A	-	A	A	D

CHEMICAL COMPATIBILITY

CHEMICALS	METALS					PLASTICS, ELASTOMERS & LEATHER																			
A: Excellent, B: Good, C: Fair to Poor, D: Not recommended - No Data	Aluminum	Carbon Steel	Cast/Ductile Iron	304 Stainless Steel	316 Stainless Steel	Acetal	Buna	CSM (Hypalon)	EPR, EPDM	Fluorocarbon	Fluoroelastomer (FKM)	Geolast (Buna & Polypropylene)	Hastelloy C	TPE	Leather	Nitrile (TS)	Nitrile (TPE)	Nylon	Polychloroprene	Polypropylene	PTFE	PVDF	Santoprene (EPDM & Polypropylene)	UHMWPE	Urethane
Bleach Liquor	-	-	-	-	-	-	D	-	A	-	A	-	-	-	-	-	-	-	B	-	-	-	-	-	-
Bleach Solutions	D	-	D	B	-	D	D	-	A	B	B	D	B	C	-	D	D	-	D	D	A	A	B	B	D
Bleaching Liquors	-	-	-	-	-	-	D	A	A	-	A	-	-	-	-	-	-	C	D	A	A	-	-	-	-
Bleaching Powder (Wet)	-	-	-	A	D	-	A	-	-	-	-	-	-	-	-	-	-	A	-	-	A	-	-	-	-
Blood	-	-	-	A	A	-	-	-	-	-	-	-	-	-	-	-	-	-	-	A	A	-	-	-	-
Blood (Meat Juices - Cold)	A	-	D	B	A	-	B	-	A	-	C	-	-	D	-	C	D	-	A	A	A	-	B	A	D
Borax (Sodium Borate)	D	A	D	A	A	B	B	A	A	A	A	B	B	B	A	B	A	A	D	B	A	A	A	A	A
Bordeaux Mixtures	D	-	C	A	A	-	A	-	A	B	A	-	A	B	-	A	B	-	A	-	A	-	A	A	D
Boric Acid	D	D	D	B	A	C	A	A	A	A	A	A	A	B	A	A	A	B	D	A	A	A	A	A	A
Boron Fluids (HEF)	-	-	-	-	-	-	-	-	D	-	A	-	-	D	-	B	C	-	D	-	A	-	D	-	A
Brake Fluid (Non-Petroleum Base)	A	A	A	A	A	A	D	-	A	-	D	D	A	D	-	C	D	B	B	D	A	-	B	A	A
Brewery Slop	-	A	A	A	A	B	A	-	A	A	A	A	-	D	-	A	-	-	A	-	A	-	A	-	A
Brine (Calcium Chloride)	C	-	D	A	-	A	A	-	A	-	A	-	A	B	-	A	A	-	B	A	A	A	A	A	B
Brine (Sodium Chloride)	-	-	D	A	-	-	A	-	A	A	-	-	A	-	-	-	-	-	B	A	A	A	-	A	-
Bromine	D	-	D	D	D	D	D	D	D	A	A	D	A	D	-	D	D	D	D	D	A	A	C	D	D
Bromine Dry Gas	D	-	D	D	D	D	-	-	-	-	-	-	-	D	-	-	-	D	-	D	A	A	-	D	-
Bromine Moist Gas	D	-	D	D	D	D	-	-	-	-	-	-	-	-	-	-	-	D	-	D	A	A	-	-	-
Bromine Trifluoride	D	-	D	B	-	D	D	-	D	D	D	D	-	D	-	D	D	-	D	D	A	-	C	-	D
Bromine Water	D	-	D	D	-	D	D	-	D	B	B	D	A	D	-	D	D	-	D	D	A	A	B	D	D
Bromine-Anhydrous	D	-	D	D	D	D	-	-	D	-	A	-	A	D	-	D	D	D	D	D	A	A	C	D	D
Bromine-Pentafluoride	-	-	-	-	-	-	-	-	D	-	D	-	-	-	-	D	D	-	D	-	A	-	D	-	D
Bromine-Trifluoride	D	-	D	-	B	-	D	-	-	-	D	-	-	-	-	-	-	-	D	D	A	-	-	-	-
Bromine-Vapor	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Bromine-Water	D	-	D	-	B	-	-	-	-	-	A	-	-	-	-	-	-	-	B	D	A	A	-	-	-
Bromobenzene	D	-	B	B	B	D	D	-	D	B	B	D	B	D	-	D	D	-	D	D	A	A	D	D	D
Bromochloro Trifluoromethane	-	-	-	-	-	-	-	-	D	-	A	-	-	-	-	D	-	-	D	-	A	-	D	-	D
Bromochloromethane	D	-	B	B	-	-	D	-	B	C	C	D	B	-	-	D	-	-	D	-	A	-	-	-	D
Bromotoluene	D	-	A	A	-	-	D	-	-	B	B	D	A	-	-	D	-	-	-	-	A	-	-	-	-
Bronzing Liquid	-	-	-	A	-	-	D	-	B	D	D	D	A	-	-	A	-	-	D	-	A	-	A	-	D
Bunker Oil	A	-	A	A	A	-	A	-	D	-	A	-	A	D	-	A	B	-	D	-	A	-	B	A	D
Bunker Oil (Fuel) #5, #6 & C Hydrocarbons	A	-	A	A	-	-	A	-	D	A	-	-	A	-	-	-	-	-	B	-	A	-	B	-	-
Bunker Oil (Fuel) #5,#6 & C (Hydrocarbons)	-	-	-	-	-	-	-	-	-	-	-	A	-	-	-	-	-	-	-	-	-	-	-	-	-
Butadiene	A	A	A	A	A	A	D	B	D	C	B	D	C	D	A	D	D	C	D	D	A	A	D	D	D
Butane	A	A	A	A	A	B	A	B	D	A	A	A	A	B	A	A	A	B	B	D	A	A	D	D	D

CHEMICAL COMPATIBILITY

CHEMICALS	METALS					PLASTICS, ELASTOMERS & LEATHER																			
A: Excellent, B: Good, C: Fair to Poor, D: Not recommended - No Data	Aluminum	Carbon Steel	Cast/Ductile Iron	304 Stainless Steel	316 Stainless Steel	Acetal	Buna	CSM (Hypalon)	EPR, EPDM	Fluorocarbon	Fluoroelastomer (FKM)	Geolast (Buna & Polypropylene)	Hastelloy C	TPE	Leather	Nitrile (TS)	Nitrile (TPE)	Nylon	Polychloroprene	Polypropylene	PTFE	PVDF	Santoprene (EPDM & Polypropylene)	UHMWPE	Urethane
Butanol (Butyl Alcohol)	B	-	B	A	A	A	A	A	A	-	A	-	B	B	-	A	B	B	A	B	A	A	B	A	D
Butraldehyde	-	-	-	-	-	-	D	-	-	-	D	-	-	-	-	-	-	-	C	D	A	B	-	-	-
Butter	A	D	D	C	A	A	A	B	A	-	A	A	-	B	-	A	A	A	B	A	A	A	D	A	A
Buttermilk	A	D	D	A	A	A	A	-	A	A	A	A	A	-	A	A	A	B	D	A	A	A	A	A	A
Butyl	-	-	-	-	-	-	-	-	-	-	-	A	-	-	-	-	-	-	-	-	-	-	-	-	-
Butyl Acetate	A	A	A	B	C	B	D	D	D	D	D	D	B	C	-	D	B	A	D	D	A	B	B	B	D
Butyl Acetyl Ricinoleate	A	-	A	A	A	-	C	-	C	B	A	D	A	-	-	C	D	-	D	-	A	-	B	-	D
Butyl Acrylate	-	-	-	-	-	A	D	-	D	D	D	D	-	D	-	D	D	-	D	D	A	C	C	A	-
Butyl Alcohol (Butanol)	B	-	-	A	-	A	A	-	-	A	-	-	A	-	-	-	-	B	A	B	A	A	A	A	-
Butyl Alcohol	A	-	B	A	-	-	A	-	B	A	A	-	A	B	-	A	A	-	A	A	A	A	A	A	D
Butyl Amine	A	-	A	A	A	D	C	-	D	D	D	D	B	D	-	B	B	A	D	D	A	B	D	A	D
Butyl Benzoate	B	-	B	B	B	A	-	-	B	A	A	-	B	-	-	D	-	-	D	-	A	-	C	-	D
Butyl Bromide	-	-	-	-	-	-	D	-	-	B	-	-	-	-	-	-	-	-	-	-	A	A	-	-	-
Butyl Butyrate	A	-	A	A	-	-	D	-	A	D	-	D	A	D	-	D	-	-	D	-	A	-	C	-	-
Butyl Carbitol	-	-	-	-	-	A	A	-	A	A	C	A	-	-	-	D	D	-	C	-	A	-	B	-	D
Butyl Cellosolve	-	-	-	-	-	A	B	-	A	C	D	-	-	-	-	C	D	-	C	-	A	B	A	-	D
Butyl Chloride	D	-	B	B	-	-	D	-	-	A	A	-	B	C	-	D	D	A	C	D	A	A	D	-	-
Butyl Ether	B	-	B	B	A	D	B	-	D	C	D	A	B	D	-	A	-	A	D	D	A	A	D	A	-
Butyl Oleate	-	-	-	-	-	A	-	-	C	A	A	-	-	-	-	D	D	-	D	-	A	-	C	-	-
Butyl Phthalate	B	-	-	B	B	-	D	D	B	-	C	D	B	B	-	-	-	A	D	B	A	D	-	A	-
Butyl Stearate	B	-	B	B	B	A	A	-	D	B	A	A	B	-	-	B	C	-	D	-	A	A	C	A	B
Butylene	A	-	-	A	A	A	B	D	D	-	A	A	-	D	-	A	C	B	D	D	A	A	D	-	C
Butylene (Butene)	A	-	-	A	-	-	B	-	D	B	-	-	-	-	-	-	-	B	D	D	A	A	D	-	-
Butyraidehyde	A	-	A	A	-	A	D	-	C	D	D	D	A	D	-	D	D	-	D	D	A	B	C	C	D
Butyric Acid	B	D	D	B	B	D	D	D	C	C	B	D	A	B	-	D	D	C	D	B	A	A	A	B	D
Butyric Acid 5%	-	-	-	-	-	D	-	-	-	-	-	-	-	-	A	-	-	B	-	A	A	B	-	A	-
Butyric Acid Concentrated	-	-	-	-	-	D	-	-	-	-	-	-	-	B	-	-	-	D	-	D	A	B	D	B	-
Butyric Acid, Aqueous	B	-	-	-	A	-	D	-	-	-	D	-	A	-	-	-	-	B	D	A	A	A	-	-	-
Butyric Anhydride	A	-	A	A	-	-	-	-	-	-	-	D	A	-	-	C	-	-	-	-	A	-	A	D	-
Butyronitrile	-	-	-	-	-	-	D	-	A	-	C	D	-	D	-	D	-	-	D	-	A	-	-	-	-
Cadmium Sulfate (25% Concentration)	-	-	-	-	-	-	-	-	-	-	-	-	-	D	-	C	-	-	-	-	A	-	-	-	D
Caffiene Citrate	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Calcium Acetate (Hydrate)	C	-	C	B	-	-	B	-	A	D	D	B	B	D	-	B	-	-	C	-	A	-	-	-	D
Calcium Acid Sulphate	-	-	-	-	-	-	-	-	B	-	D	-	-	-	-	C	-	-	C	-	A	-	-	-	-

CHEMICAL COMPATIBILITY

CHEMICALS	METALS					PLASTICS, ELASTOMERS & LEATHER																			
A: Excellent, B: Good, C: Fair to Poor, D: Not recommended - No Data	Aluminum	Carbon Steel	Cast/Ductile Iron	304 Stainless Steel	316 Stainless Steel	Acetal	Buna	CSM (Hypalon)	EPR, EPDM	Fluorocarbon	Fluoroelastomer (FKM)	Geolast (Buna & Polypropylene)	Hastelloy C	TPE	Leather	Nitrile (TS)	Nitrile (TPE)	Nylon	Polychloroprene	Polypropylene	PTFE	PVDF	Santoprene (EPDM & Polypropylene)	UHMWPE	Urethane
Calcium Bisulfate	-	D	D	-	A	-	A	-	A	-	A	A	-	-	-	A	A	-	C	-	A	-	-	-	A
Calcium Bisulfide	C	-	D	B	B	D	A	-	D	-	A	A	A	B	-	A	A	A	A	A	A	A	D	-	A
Calcium Bisulfite	D	-	D	B	A	D	B	A	D	A	A	A	B	D	A	A	A	A	A	B	A	D	D	A	A
Calcium Carbonate (Chalk)	D	-	B	B	B	A	A	A	A	A	A	A	B	-	A	A	A	A	A	A	A	A	A	A	D
Calcium Chlorate	B	-	B	B	-	A	A	B	A	A	A	A	B	-	-	A	A	-	A	A	A	A	A	A	B
Calcium Chloride	D	C	C	C	C	D	A	A	A	-	A	A	A	A	-	-	-	B	A	A	A	A	-	-	-
Calcium Chloride (Brine)	C	-	C	C	-	D	A	-	A	A	A	-	A	A	-	A	A	B	A	A	A	A	A	A	A
Calcium Chloride Dilute	-	-	-	-	-	C	-	-	-	-	-	-	-	B	-	-	-	A	-	A	A	A	-	A	-
Calcium Chloride Saturated	-	A	A	A	A	D	A	-	A	-	A	-	-	B	A	-	-	B	A	A	A	A	-	A	-
Calcium Hydrosulfide (Calcium Sulfhydrate)	-	-	-	-	-	-	A	-	A	A	A	-	-	-	-	A	-	-	A	-	A	-	A	A	-
Calcium Hydroxide	C	A	A	B	B	D	A	A	A	-	A	-	A	B	-	-	-	A	A	A	A	A	-	-	-
Calcium Hydroxide - 10% (Boiling)	C	-	A	A	-	A	-	-	A	-	A	-	A	B	-	A	A	-	A	A	A	A	A	D	A
Calcium Hydroxide (Slaked Lime)	D	-	B	B	-	D	A	-	A	A	-	A	A	-	-	-	-	B	A	A	A	A	A	-	-
Calcium Hydroxide 10%	-	A	A	A	A	A	A	-	A	-	A	-	-	B	A	-	-	A	A	A	A	A	-	D	-
Calcium Hydroxide 20%	-	-	-	A	A	D	-	-	-	-	-	-	-	B	-	-	-	A	-	A	A	A	-	D	-
Calcium Hydroxide 30%	-	-	-	A	A	D	-	-	-	-	-	-	-	B	-	-	-	A	-	A	A	A	-	A	-
Calcium Hypochlorite	D	D	D	C	C	D	C	A	B	-	A	-	B	C	D	C	C	D	D	A	A	A	A	A	D
Calcium Hypochlorite 2% Boiling	D	-	C	C	B	D	-	-	-	-	-	-	-	C	-	-	-	D	-	A	A	A	-	D	-
Calcium Hypochlorite 20% (Calcium Oxichloride)	D	-	D	B	-	A	C	-	B	B	-	-	B	-	-	-	-	A	D	A	A	A	A	A	-
Calcium Hypochlorite, 20%(Calcium Oxichloride)	-	-	-	-	-	-	-	-	-	-	-	D	-	-	-	-	-	-	-	-	-	-	-	-	-
Calcium Nitrate	B	B	C	C	B	D	A	A	B	A	A	A	B	-	-	B	C	D	B	A	A	A	A	A	D
Calcium Nitrite	-	-	-	A	A	D	A	-	A	-	A	-	-	-	-	-	-	C	A	A	A	A	-	-	-
Calcium Oxide	C	-	-	A	A	A	A	A	A	-	B	A	A	A	-	-	-	B	A	A	A	A	-	-	-
Calcium Oxide (Unslaked Lime)	A	-	A	A	-	-	A	-	A	-	A	-	A	B	-	A	A	-	A	-	A	-	A	A	B
Calcium Silicate	A	-	B	A	-	-	A	-	A	A	A	A	A	-	-	A	-	-	A	-	A	-	-	-	-
Calcium Sulfate	C	A	C	B	B	D	A	A	A	A	A	A	B	-	-	A	A	D	D	A	A	D	A	A	B
Calcium Sulfide	A	-	B	B	B	-	A	-	A	A	A	A	A	-	-	A	A	-	B	A	A	A	A	-	A
Calcium Sulfite	B	-	B	A	-	-	A	-	A	A	A	A	-	-	-	A	B	-	A	-	A	-	A	-	A
Calcium Thiosulfate	-	-	-	-	-	-	-	-	A	-	A	-	-	D	-	B	C	-	A	-	A	-	A	-	A
Calgon	-	D	D	A	A	A	A	A	A	A	A	A	-	D	-	A	A	A	A	A	A	-	A	-	D
Cane Juice	B	A	A	A	A	A	A	A	A	-	A	A	-	-	-	A	B	A	A	D	A	B	A	-	D
Cane Sugar Liquors	A	A	B	A	A	-	A	-	A	A	A	A	-	B	-	A	A	-	A	A	A	A	A	-	D
Capryl Alcohol (Octanol)	A	-	A	A	-	-	A	-	C	B	B	-	A	-	-	A	B	-	D	-	A	-	A	-	D
Caprylic Acid (Octanoic Acid)	A	-	-	A	-	-	C	-	A	-	A	D	A	-	-	C	C	-	-	-	A	A	A	-	-

CHEMICAL COMPATIBILITY

CHEMICALS	METALS					PLASTICS, ELASTOMERS & LEATHER																			
A: Excellent, B: Good, C: Fair to Poor, D: Not recommended - No Data	Aluminum	Carbon Steel	Cast/Ductile Iron	304 Stainless Steel	316 Stainless Steel	Acetal	Buna	CSM (Hypalon)	EPR, EPDM	Fluorocarbon	Fluoroelastomer (FKM)	Geolast (Buna & Polypropylene)	Hastelloy C	TPE	Leather	Nitrile (TS)	Nitrile (TPE)	Nylon	Polychloroprene	Polypropylene	PTFE	PVDF	Santoprene (EPDM & Polypropylene)	UHMWPE	Urethane
Caprylic Aldehyde	-	-	-	-	-	-	-	-	-	-	D	-	-	-	-	D	-	-	-	-	A	-	-	-	-
Carbamate	-	-	-	-	-	-	C	-	C	A	A	D	-	-	-	C	D	-	C	-	A	-	A	-	D
Carbitol	B	-	B	B	B	-	B	-	C	C	A	B	A	-	-	B	C	-	C	C	A	A	B	-	D
Carbolic Acid (Phenol)	B	D	D	B	B	D	D	D	C	A	A	D	A	D	D	D	D	D	D	C	A	B	D	B	C
Carbon Bisulfide	B	-	B	B	B	B	D	D	D	-	A	D	B	C	-	D	D	A	D	D	A	A	D	D	C
Carbon Dioxide	A	A	D	A	A	C	A	-	B	A	B	-	A	C	A	A	B	B	B	A	A	A	A	C	C
Carbon Dioxide (dry)	B	D	D	A	A	A	A	B	B	-	B	-	A	A	-	-	-	A	B	A	A	A	-	-	-
Carbon Dioxide (wet)	A	D	D	A	A	A	A	B	B	-	B	A	A	-	-	-	-	A	B	A	A	A	-	-	-
Carbon Disulfide	C	A	B	B	B	B	D	D	D	A	A	D	B	D	-	D	D	C	D	D	A	B	D	D	C
Carbon Monoxide	A	A	A	A	A	B	C	C	C	C	A	A	B	B	-	A	A	A	B	A	A	B	A	C	A
Carbon Tetrachloride	D	D	D	B	B	B	D	D	D	A	A	D	A	D	-	C	D	D	D	D	A	A	D	D	A
Carbon Tetrachloride (dry)	D	-	-	B	B	B	C	D	D	-	A	-	B	D	A	-	-	D	D	D	A	A	D	D	-
Carbon Tetrachloride (wet)	D	C	C	A	A	C	D	D	D	-	-	-	B	D	-	-	-	D	D	D	A	A	D	C	-
Carbonated Beverages	C	-	D	A	-	-	A	-	A	-	A	-	A	-	-	A	A	-	A	A	A	A	A	-	B
Carbonated Water	A	D	D	A	A	A	A	-	-	-	A	A	-	-	-	-	-	A	A	B	-	A	-	-	-
Carbonic Acid	D	D	D	B	B	B	D	C	B	A	A	B	A	D	A	A	B	B	D	B	A	A	D	B	C
Casein	B	-	-	B	-	-	A	-	A	A	A	A	B	-	-	A	-	-	A	-	A	-	A	-	-
Casing Head Gas	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	A	-	-	A	-	A	-	-	-	-
Catsup (Ketchup)	D	D	D	B	B	B	A	-	A	A	A	A	A	-	-	A	A	A	D	A	A	-	A	A	D
Caustic	D	-	-	A	A	-	-	-	-	-	-	-	-	D	-	-	-	-	-	-	-	-	B	-	-
Cellosolve	B	B	B	B	B	A	D	-	C	B	D	D	A	D	-	D	D	A	D	C	A	A	C	-	D
Cellosolve, Acetate	B	B	B	B	B	A	C	-	B	-	D	-	A	D	-	D	D	-	D	B	A	B	A	C	D
Cellosolve, Butyl	B	B	B	B	B	A	-	-	B	-	D	-	-	D	-	D	D	-	D	-	A	B	C	-	D
Celluguard	-	-	-	-	-	-	-	-	A	-	A	-	-	-	-	A	B	-	A	-	A	-	B	-	D
Cellulose Acetate	B	-	B	A	-	-	B	-	-	C	-	B	A	-	-	-	-	-	B	-	A	-	-	-	-
Cellulube® Hydraulic Fluids	A	-	A	A	-	-	D	-	A	B	A	D	A	-	-	-	-	-	D	-	A	-	D	-	-
Cellutherm 2505A	-	-	-	-	-	-	-	-	D	-	A	-	-	D	-	B	C	-	D	-	A	-	D	-	D
Cetane (Hexadecane)	-	-	-	-	-	-	-	-	D	-	A	-	-	D	-	A	B	-	B	-	A	-	D	-	D
Chloroacetaldehyde	-	-	-	-	-	-	-	-	A	-	D	-	-	-	-	D	-	-	D	-	A	-	-	-	D
Chlorate of Lime	-	-	-	-	-	-	-	-	A	-	A	-	-	D	-	C	D	-	D	-	A	-	D	A	D
Chlorbenzol (Conc. Pure)	-	-	-	-	-	-	-	-	D	-	D	-	-	-	-	D	D	-	D	-	A	-	D	-	-
Chlorextol	-	-	-	-	-	-	-	-	D	-	A	-	-	-	-	B	-	-	B	-	A	-	-	-	D
Chloric Acid	D	D	D	D	D	D	-	-	-	-	-	-	A	-	-	-	-	D	-	A	A	A	-	-	-
Chlorinated Glue	D	D	D	-	A	D	C	-	B	-	A	B	-	-	-	-	-	-	D	-	-	-	-	-	-

CHEMICAL COMPATIBILITY

CHEMICALS	METALS					PLASTICS, ELASTOMERS & LEATHER																			
A: Excellent, B: Good, C: Fair to Poor, D: Not recommended - No Data	Aluminum	Carbon Steel	Cast/Ductile Iron	304 Stainless Steel	316 Stainless Steel	Acetal	Buna	CSM (Hypalon)	EPR, EPDM	Fluorocarbon	Fluoroelastomer (FKM)	Geolast (Buna & Polypropylene)	Hastelloy C	TPE	Leather	Nitrile (TS)	Nitrile (TPE)	Nylon	Polychloroprene	Polypropylene	PTFE	PVDF	Santoprene (EPDM & Polypropylene)	UHMWPE	Urethane
Chlorinated Lime - 35% Bleach	D	-	D	A	-	D	C	-	A	A	A	D	A	C	-	C	C	-	D	B	A	A	D	A	D
Chlorinated Water	D	-	-	B	B	D	C	-	D	A	A	-	A	D	-	C	D	D	C	C	A	B	D	A	D
Chlorine (dry)	D	D	D	D	B	D	D	D	D	A	A	-	A	D	-	D	D	D	D	D	A	A	D	B	D
Chlorine (Wet)	D	-	D	D	D	D	D	-	D	A	A	D	A	D	D	D	D	D	D	D	D	D	D	B	D
Chlorine Dioxide	D	-	D	D	D	-	D	-	C	B	B	D	B	D	-	D	D	-	D	D	A	A	D	-	D
Chlorine Gas (Dry)	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Chlorine Gas (Wet)	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Chlorine Trifluoride	D	-	D	A	A	-	D	-	D	B	D	D	-	-	-	D	D	D	D	D	A	-	D	D	D
Chlorine Water	D	-	-	C	C	D	D	C	C	-	A	D	A	-	-	-	-	C	D	D	A	B	-	-	-
Chlorine, Anhydrous Liquid	D	D	D	D	D	D	D	C	D	A	A	D	D	D	-	D	D	D	D	D	A	A	D	D	D
Chloroacetic Acid	D	D	D	D	B	D	D	-	B	C	D	D	A	D	-	D	C	D	D	C	A	B	D	D	D
Chloroacetone	D	-	B	B	B	B	D	-	D	C	B	D	B	D	-	D	D	-	C	D	A	-	C	-	D
Chlorobenzene	D	B	C	B	B	D	D	D	D	A	A	D	B	D	-	D	C	D	D	D	B	B	D	B	D
Chlorobromomethane	D	B	B	B	B	B	D	D	B	A	A	D	-	D	-	D	D	C	D	D	A	-	D	D	D
Chlorobutadiene	D	-	B	B	A	-	D	-	D	A	A	D	B	D	-	D	D	-	D	D	A	-	C	-	D
Chlorodane	-	-	-	-	-	-	-	-	D	-	A	-	-	D	-	D	D	-	D	-	A	-	C	-	D
Chlorododecane	D	-	D	-	-	-	D	-	D	-	A	-	-	D	-	D	D	-	D	D	A	-	D	-	D
Chloroethanol	B	-	B	-	B	D	-	-	-	-	-	-	-	-	-	-	-	D	-	D	A	C	-	-	-
Chloroform	D	B	D	A	A	B	D	D	D	A	A	D	B	D	-	D	C	D	D	D	A	B	D	D	D
Chlorol 1 Nitro Ethane	D	-	-	-	-	-	D	-	D	-	D	-	-	D	-	D	D	-	D	D	A	-	C	-	D
Chloronaphthalene	D	-	B	B	B	-	D	-	D	C	A	D	B	D	-	D	D	-	D	D	A	A	D	C	D
Chlorophenol	C	-	C	B	B	B	-	-	D	-	B	D	A	-	-	D	C	D	D	-	A	B	C	-	D
Chlorosulfonic Acid	D	D	D	D	D	D	D	D	D	D	D	D	B	D	-	-	-	D	D	D	A	D	A	D	-
Chlorosulfonic Acid (Dry)	D	-	D	D	-	D	-	-	C	-	C	-	B	C	-	D	C	-	D	C	A	C	C	D	D
Chlorosulfonic Acid (Wet)	D	-	D	D	-	D	-	-	D	-	D	-	B	D	-	D	D	-	D	C	A	C	D	D	D
Chlorosulfonic Acid Dilute	D	-	D	D	D	B	-	-	-	-	-	-	-	D	-	-	-	-	-	C	A	-	-	C	-
Chlorothene® (Chlorinated Solvents)	D	-	D	A	-	-	D	-	-	C	-	D	A	-	-	-	-	-	D	-	A	-	-	-	-
Chlorotoluene	D	-	B	B	B	A	D	-	D	-	A	-	A	D	-	D	D	-	D	D	A	-	C	-	D
Chlorotrifluoroethylene	B	-	B	B	-	-	D	-	-	-	-	-	B	-	-	-	-	-	-	-	A	-	-	-	-
Chlorox® (Bleach)	D	D	D	A	A	D	D	B	B	A	A	D	B	-	-	-	-	A	B	D	A	A	B	-	-
Chocolate Syrup	A	D	D	A	A	A	A	-	A	-	A	A	-	-	-	-	-	A	A	A	A	-	A	-	-
Chrome Plating Solutions	D	-	D	-	D	-	D	-	-	-	A	-	A	-	-	-	-	-	D	B	A	A	-	-	-
Chromic Acid	-	-	-	-	-	-	-	-	-	-	-	A	-	-	-	-	-	-	-	-	-	-	-	-	-
Chromic Acid - 25%-50%	D	-	B	D	-	D	D	-	C	A	-	-	B	-	-	-	-	D	D	A	A	A	D	A	-

CHEMICAL COMPATIBILITY

CHEMICALS	METALS					PLASTICS, ELASTOMERS & LEATHER																			
A: Excellent, B: Good, C: Fair to Poor, D: Not recommended - No Data	Aluminum	Carbon Steel	Cast/Ductile Iron	304 Stainless Steel	316 Stainless Steel	Acetal	Buna	CSM (Hypalon)	EPR, EPDM	Fluorocarbon	Fluoroelastomer (FKM)	Geolast (Buna & Polypropylene)	Hastelloy C	TPE	Leather	Nitrile (TS)	Nitrile (TPE)	Nylon	Polychloroprene	Polypropylene	PTFE	PVDF	Santoprene (EPDM & Polypropylene)	UHMWPE	Urethane
Chromic Acid - 5%	C	D	D	B	A	D	D	B	A	-	A	-	B	D	-	D	D	D	D	D	A	A	A	A	D
Chromic Acid - 50%	D	D	D	C	B	D	D	C	C	-	A	-	B	D	-	D	D	D	D	D	A	A	A	A	D
Chromic Acid - Over 50%	D	-	B	D	-	D	D	-	C	A	-	-	B	-	-	-	-	D	D	D	A	A	D	A	-
Chromic Acid - To 10%	B	-	B	D	-	D	D	-	A	A	-	-	B	-	-	-	-	D	D	D	A	A	D	A	-
Chromic Acid 10%	D	D	D	B	B	D	D	C	C	-	B	-	A	D	-	-	-	D	D	D	A	A	-	-	-
Chromic Acid 30%	D	D	D	B	B	D	D	C	B	-	A	-	D	D	-	-	-	D	D	D	A	A	-	-	-
Chromic Acid Concentrated	D	D	C	C	C	D	-	-	-	-	-	-	-	D	-	-	-	D	-	B	A	B	D	A	-
Chromic Acid Dilute	-	-	-	A	A	D	D	-	C	-	A	-	-	-	-	-	-	C	C	A	A	A	-	A	-
Chromic Acid over 25%	-	-	-	-	-	-	-	-	-	-	-	D	-	-	-	-	-	-	-	-	-	-	-	-	-
Chromium Salts	-	-	-	-	-	-	-	-	-	-	-	-	-	B	-	-	-	B	-	-	-	-	-	-	-
Cider (Apple Juice)	B	D	D	A	A	A	A	-	A	A	A	A	A	D	-	A	B	A	A	A	A	-	A	A	D
Citric Acid	C	D	D	B	A	B	B	C	A	A	A	A	A	A	-	-	-	D	A	B	A	A	A	A	-
Citric Acid - 5% Solution	C	-	D	A	-	C	-	-	A	-	A	-	A	B	-	A	A	-	A	A	A	A	A	A	A
Citric Acid Concentrated	-	-	-	-	A	C	A	-	A	-	A	-	-	B	-	-	-	D	A	A	A	A	A	A	-
Citric Acid Dilute	A	-	-	A	A	B	-	-	-	-	-	-	-	B	-	-	-	A	-	A	A	A	A	A	-
Citrus Pectin Liquor	-	-	-	A	-	-	A	-	-	A	C	-	-	B	-	A	B	-	A	-	A	-	-	D	C
Cloracetic Acid	D	-	D	-	C	-	D	-	-	-	D	-	A	-	-	-	-	D	D	B	A	A	-	-	-
Coal Gas	-	-	-	-	-	-	-	-	A	-	A	-	-	B	-	D	-	-	A	-	A	-	-	-	B
Coal Tars	-	-	-	-	-	D	-	-	D	-	A	-	A	D	-	C	D	-	C	C	A	-	D	-	D
Cobalt Chloride	D	-	D	-	-	-	A	-	C	A	A	A	-	-	-	A	A	-	A	A	A	-	A	-	D
Coca Cola Syrup	-	-	-	A	A	-	-	-	A	-	B	-	-	-	-	A	B	-	B	-	A	-	A	-	B
Coconut Oil (Coconut Butter)	B	A	A	A	A	A	B	C	D	A	A	A	A	-	-	A	B	-	D	A	A	A	B	A	C
Cod Liver Oil	B	-	D	A	A	B	B	B	A	A	A	A	A	-	-	A	-	-	B	A	A	A	C	A	A
Coffee	A	-	-	A	A	A	A	A	A	-	A	A	A	-	-	A	A	A	A	A	A	-	A	A	D
Coke Oven Gas	-	-	-	-	-	-	C	-	D	A	A	-	-	-	-	C	D	-	C	-	A	A	B	A	D
Coliche Liquors	-	-	-	-	-	-	-	-	B	-	-	-	-	-	-	B	B	-	A	-	A	-	B	-	-
Convelex 10	-	-	-	-	-	-	-	-	-	-	A	-	-	D	-	D	D	-	D	-	A	-	D	-	D
Coolanol (Monsanto)	D	-	D	C	-	A	-	-	D	-	A	-	B	-	-	A	B	-	B	-	-	A	D	-	D
Copper Acetate	D	-	D	C	C	A	B	-	A	-	D	B	B	D	-	B	-	-	C	-	A	A	A	-	D
Copper Chloride	D	-	D	D	D	A	A	C	A	A	A	A	B	A	-	-	-	D	B	A	A	A	A	A	-
Copper Chloride - 1%	D	-	D	D	-	A	-	-	A	-	A	-	B	A	-	A	A	-	A	A	A	A	A	A	D
Copper Cyanide	D	A	D	B	B	A	A	C	A	A	A	A	A	A	-	A	A	D	A	A	A	A	A	A	A
Copper Fluoborate	D	D	D	D	D	B	B	-	-	-	A	B	B	A	-	B	-	-	A	-	A	-	A	-	A
Copper Fluoride	-	-	-	D	D	-	-	-	-	-	-	-	-	-	-	-	-	-	-	A	A	A	-	A	-

CHEMICAL COMPATIBILITY

CHEMICALS	METALS					PLASTICS, ELASTOMERS & LEATHER																			
A: Excellent, B: Good, C: Fair to Poor, D: Not recommended - No Data	Aluminum	Carbon Steel	Cast/Ductile Iron	304 Stainless Steel	316 Stainless Steel	Acetal	Buna	CSM (Hypalon)	EPR, EPDM	Fluorocarbon	Fluoroelastomer (FKM)	Geolast (Buna & Polypropylene)	Hastelloy C	TPE	Leather	Nitrile (TS)	Nitrile (TPE)	Nylon	Polychloroprene	Polypropylene	PTFE	PVDF	Santoprene (EPDM & Polypropylene)	UHMWPE	Urethane
Copper Fluoroborate	A	-	D	D	-	-	A	-	B	-	-	-	D	-	-	-	-	-	-	B	-	-	-	-	-
Copper Nitrate	D	D	D	A	A	A	A	-	A	-	A	A	B	A	-	A	B	D	A	A	A	A	A	A	B
Copper Nitrate Hexahydrate	D	-	D	A	-	A	A	-	A	A	-	A	B	-	-	-	-	D	A	A	A	A	-	-	-
Copper Nitrite	D	-	-	A	A	A	-	-	-	-	-	-	-	-	A	-	-	D	-	A	A	A	-	-	-
Copper Sulfate	-	-	-	A	A	A	A	-	A	-	A	A	-	B	-	-	-	C	A	A	A	A	-	A	-
Copper Sulfate - 5% Solution	D	-	D	A	A	D	A	-	A	-	A	-	A	A	-	A	A	C	A	A	A	A	A	A	A
Copper Sulfate (Blue Copperas)	D	-	D	A	-	A	A	-	A	A	-	-	A	-	-	-	-	B	A	A	A	A	A	A	-
Copper Sulfate >5%	D	D	D	B	B	D	A	C	A	-	A	-	A	A	-	-	-	D	A	A	A	A	-	-	-
Copper Sulfate 5%	D	D	D	B	B	D	A	C	A	-	A	-	A	A	-	-	-	D	A	A	A	A	-	-	-
Copper Sulfide	-	-	-	-	-	-	A	-	-	A	-	-	-	-	-	-	-	-	-	-	A	-	-	-	-
Corn Oil	B	A	C	B	A	A	D	B	D	A	B	A	A	A	A	A	B	A	D	A	A	A	D	A	A
Cream	A	D	D	D	A	A	C	-	A	-	A	A	A	-	-	-	-	A	D	A	A	-	A	-	-
Creosols	B	-	C	A	-	B	-	-	D	-	A	-	B	-	-	D	D	-	D	D	A	A	C	D	D
Creosote Hot	B	-	B	B	B	D	A	-	D	-	A	-	-	D	-	-	-	D	B	D	A	-	-	A	-
Creosote, Coal Tar	B	-	B	B	-	D	-	-	D	-	A	-	B	D	-	B	D	-	D	D	A	-	D	-	D
Creosote, Coal-Tar	B	-	B	B	-	D	A	-	D	A	-	A	B	-	-	-	-	D	C	D	A	-	B	D	-
Creosote, Wood-Tar	-	-	-	B	-	D	A	-	D	A	A	A	-	D	-	A	D	D	C	D	A	-	D	D	C
Cresols	B	C	C	A	A	D	D	D	D	-	A	-	B	D	-	-	-	D	D	D	A	A	-	-	-
Cresyldiphenyl Phosphate	-	-	-	-	-	D	-	-	-	-	-	-	-	-	-	-	-	A	-	-	-	-	-	-	-
Cresylic Acid	C	A	C	A	A	D	D	D	D	A	A	D	B	D	-	D	D	D	D	D	A	B	B	D	D
Crotonaldehyde	A	-	A	A	-	-	D	-	A	A	D	D	A	-	-	D	D	-	D	-	A	-	B	-	D
Crude Oil	A	-	B	A	A	D	-	-	D	-	A	A	B	B	-	B	C	A	C	D	A	A	D	B	D
Cumeme (Isopropylbenzene)	B	-	B	B	-	-	D	-	D	A	A	D	B	-	-	D	D	-	D	-	A	-	D	A	D
Cupric Acid	D	-	-	D	B	-	B	-	A	-	A	B	A	-	-	-	-	D	A	A	A	-	-	-	-
Cupric Chloride	D	-	D	B	B	D	-	-	-	-	-	-	-	-	-	-	-	D	-	B	A	B	-	A	-
Cutting Oil (Sulfur Base)	A	A	A	A	A	A	A	-	D	-	A	-	A	-	-	A	B	-	D	-	A	-	D	A	A
Cutting Oil (Water Soluble)	A	A	A	A	A	A	C	-	D	A	A	-	A	-	-	C	C	-	D	-	A	-	D	A	A
Cyanic Acid	-	D	D	A	A	D	C	-	A	-	D	D	-	-	-	C	D	-	D	-	A	-	B	-	D
Cyclohexane	B	B	B	B	A	A	B	D	D	A	A	A	B	A	-	A	A	A	D	D	A	A	D	A	B
Cyclohexanol	C	A	B	B	B	A	C	-	D	A	A	B	A	-	-	B	C	B	A	B	A	A	D	A	B
Cyclohexanone	B	B	B	B	B	A	D	-	C	D	D	D	B	D	-	D	D	A	D	D	A	D	D	B	D
Cyclopentane	B	-	B	B	-	-	B	-	D	A	-	-	B	-	-	-	-	-	A	-	A	-	-	-	-
Cymene (Isopropyltoluene)	-	-	-	-	-	-	C	-	D	A	-	-	-	-	-	-	-	-	D	-	A	-	-	-	-
Decahydronaphthalene (Decalin®)	-	-	-	-	-	-	D	-	D	A	-	D	-	-	-	-	-	-	D	-	A	-	-	-	-

CHEMICAL COMPATIBILITY

CHEMICALS	METALS					PLASTICS, ELASTOMERS & LEATHER																			
A: Excellent, B: Good, C: Fair to Poor, D: Not recommended - No Data	Aluminum	Carbon Steel	Cast/Ductile Iron	304 Stainless Steel	316 Stainless Steel	Acetal	Buna	CSM (Hypalon)	EPR, EPDM	Fluorocarbon	Fluoroelastomer (FKM)	Geolast (Buna & Polypropylene)	Hastelloy C	TPE	Leather	Nitrile (TS)	Nitrile (TPE)	Nylon	Polychloroprene	Polypropylene	PTFE	PVDF	Santoprene (EPDM & Polypropylene)	UHMWPE	Urethane
Decalin	-	-	-	-	-	-	D	-	D	-	A	-	-	-	-	D	D	-	D	B	A	A	C	C	D
Decanal	-	-	-	-	-	-	D	-	D	D	D	-	-	-	-	D	-	-	D	-	A	-	D	-	-
Decane	-	-	-	-	-	-	B	-	D	A	A	A	-	-	-	B	A	-	D	A	A	A	C	-	B
Decyl Alcohol (Decanol)	-	-	-	-	-	-	A	-	-	B	B	-	-	-	-	B	-	-	D	-	A	-	-	-	D
Degreasing Fluid (Chlorinated)	-	-	-	-	-	-	-	-	D	-	A	-	-	-	-	D	D	-	D	-	A	-	D	-	A
De-Ionized Water	A	-	C	A	-	-	A	-	A	-	A	-	A	A	-	A	A	-	A	A	A	A	A	A	-
Denatured Alcohol	B	-	B	A	A	A	A	-	A	B	B	-	A	-	-	A	A	-	B	A	A	A	B	-	D
Detergent Solutions	B	-	A	A	A	A	A	B	A	A	A	A	B	B	-	A	B	A	B	A	A	A	B	A	A
Detergents General	A	-	A	A	A	A	A	-	A	-	A	-	-	-	-	-	-	A	B	B	A	-	-	A	-
Developing Fluids (Photo)	-	-	D	A	B	A	A	-	C	A	A	-	A	D	-	A	-	-	A	-	A	-	A	A	D
Dextron	-	-	-	-	-	-	-	-	D	-	A	-	-	-	-	A	C	-	B	-	A	-	D	-	B
Dextrose	A	-	D	A	-	-	B	-	A	A	A	B	A	B	-	A	A	-	B	A	A	A	A	A	A
Diacetone	A	-	A	A	A	A	D	-	B	D	D	D	A	-	-	-	-	A	D	D	A	A	C	-	-
Diacetone Alcohol	A	-	A	B	B	A	D	A	B	D	D	-	A	-	-	-	-	A	D	D	A	D	B	-	-
Diacetone Alcohol (Acetal)	A	A	A	A	A	A	D	-	A	-	D	-	-	C	-	-	-	A	D	B	A	B	-	-	-
Diacetone Alcohol (Diacetol)	A	-	A	A	-	A	-	-	A	-	D	-	A	C	-	D	D	-	D	B	A	A	B	-	D
Diamylamine	-	-	-	-	-	-	-	-	A	-	D	-	-	-	-	B	-	-	D	-	A	-	B	-	D
Diazinon	-	-	-	-	-	-	-	-	D	-	B	-	-	D	-	C	D	-	C	-	A	-	D	-	D
Dibasic Ester	-	-	-	-	-	B	-	-	B	-	D	-	-	-	-	-	-	B	-	B	B	-	B	-	-
Dibenzyl Ether	B	-	B	B	B	-	D	-	C	C	C	D	B	-	-	D	-	-	D	-	A	C	C	-	B
Dibenzyl Sebecate	-	-	-	-	-	-	D	-	C	B	B	D	-	-	-	D	D	-	D	-	A	-	C	-	B
Dibromoethyl Benzene	-	-	-	-	-	-	-	-	D	-	A	-	-	-	-	D	D	-	D	-	A	-	C	-	D
Dibutyl Amine	-	-	A	A	-	-	C	-	D	D	B	D	A	-	-	C	D	-	D	D	A	B	C	-	D
Dibutyl Ether	B	-	B	-	B	-	B	-	C	-	C	-	-	-	-	D	D	-	D	D	A	A	B	-	D
Dibutyl Mercaptan	-	-	-	-	-	-	D	-	-	A	-	-	-	-	-	-	-	-	D	-	A	-	B	-	-
Dibutyl Phthalate	A	A	A	A	A	-	D	-	B	B	C	D	A	B	A	D	B	A	D	D	A	D	B	A	C
Dibutyl Sebecate	-	-	A	A	A	-	D	-	C	C	B	D	-	A	-	D	D	-	D	C	A	D	B	-	D
Dichlorethane	-	-	D	A	-	A	-	-	D	-	B	-	B	D	-	D	D	-	D	A	A	A	D	C	D
Dichloro Isopropyl Ether	D	-	-	-	-	-	D	-	D	D	C	D	-	D	-	D	D	-	D	D	A	-	D	-	B
Dichloroacetic Acid	-	-	-	-	-	-	D	-	C	D	D	-	-	-	-	D	-	-	D	-	A	-	B	-	-
Dichlorobenzene	B	A	A	A	B	-	D	D	D	-	C	D	A	D	-	-	-	D	D	D	A	B	D	D	-
Dichlorobutane	D	-	B	B	-	-	D	-	D	A	A	D	-	-	-	B	-	-	D	-	A	-	-	-	D
Dichlorodifluoro Methane	A	-	A	A	B	-	-	-	-	-	-	-	-	D	-	-	-	A	-	B	A	A	D	-	-
Dichloroethane	B	A	A	B	B	A	D	C	-	-	C	D	A	D	-	-	-	D	D	D	A	B	D	D	-

CHEMICAL COMPATIBILITY

CHEMICALS	METALS					PLASTICS, ELASTOMERS & LEATHER																			
A: Excellent, B: Good, C: Fair to Poor, D: Not recommended - No Data	Aluminum	Carbon Steel	Cast/Ductile Iron	304 Stainless Steel	316 Stainless Steel	Acetal	Buna	CSM (Hypalon)	EPR, EPDM	Fluorocarbon	Fluoroelastomer (FKM)	Geolast (Buna & Polypropylene)	Hastelloy C	TPE	Leather	Nitrile (TS)	Nitrile (TPE)	Nylon	Polychloroprene	Polypropylene	PTFE	PVDF	Santoprene (EPDM & Polypropylene)	UHMWPE	Urethane
Dichloroethyl Ether	B	-	-	-	-	-	D	-	-	-	-	-	-	-	-	D	-	-	-	-	A	-	-	-	-
Dichloroethylene	-	-	-	-	-	-	-	-	-	-	-	-	-	D	-	-	-	A	-	A	A	A	D	D	-
Dichloro-Isopropyl Ether	D	-	-	-	-	-	D	-	-	-	C	-	-	-	-	-	-	-	D	D	A	-	-	-	-
Dichloropentane	-	-	-	-	-	-	-	-	D	-	A	-	-	-	-	D	D	-	D	-	A	-	D	-	D
Dicyclohexylamine	-	-	-	-	-	-	D	-	D	B	D	-	-	-	-	D	D	-	D	-	A	-	B	-	D
Diemethyl Formamide	A	-	A	A	-	C	-	-	B	-	D	-	A	B	-	C	C	-	D	A	A	D	A	A	D
Diemethyl Phthalate	A	-	A	A	-	-	-	-	B	-	A	-	A	A	-	D	D	-	D	A	A	A	A	-	D
Diesel Fuel	A	A	A	A	A	A	A	B	D	-	A	A	B	B	A	-	-	A	D	B	A	A	D	D	-
Diesel Oil (Fuel ASTM #2)	A	-	A	A	-	A	A	-	D	A	A	-	A	B	-	A	B	-	D	B	A	A	D	A	B
Di-Ester Lubricant Mil-L-7808	-	-	-	-	-	-	-	-	D	-	A	-	-	-	-	B	C	-	D	-	A	-	D	-	D
Di-Ester Synthetic Lubricants	A	-	A	A	-	-	-	-	D	-	A	-	A	D	-	D	D	-	D	-	A	-	D	-	D
Diester Synthetic Oils	A	-	A	A	-	-	B	-	D	A	-	-	A	-	-	-	-	-	D	-	A	-	-	-	-
Diethanol Amine	A	-	A	A	-	-	B	-	A	-	D	B	A	D	-	D	D	A	D	A	A	-	-	-	D
Diethanolamine	A	A	A	A	A	-	-	-	-	-	-	-	-	D	-	-	-	B	-	B	A	-	-	-	-
Diethyl Amine	B	-	D	B	-	-	C	-	C	D	D	-	A	-	-	C	D	A	C	A	A	A	C	-	C
Diethyl Aniline	-	-	-	-	-	-	-	-	B	-	C	-	-	-	-	D	D	-	D	A	A	A	B	-	D
Diethyl Benzene	-	-	-	-	-	-	D	-	D	A	A	-	-	-	-	D	D	-	D	-	A	-	C	D	D
Diethyl Carbonate	-	-	A	-	-	-	D	-	D	-	A	D	-	-	-	D	D	-	D	-	A	-	D	-	D
Diethyl Ether	B	B	B	B	B	A	D	D	D	D	D	B	B	C	-	D	D	C	D	D	A	B	B	D	A
Diethyl Phthalate (DEP)	A	-	A	A	-	-	D	-	-	C	C	D	A	A	-	D	B	-	-	-	A	-	A	-	-
Diethyl Sebecate	A	-	A	A	A	-	D	-	C	B	A	D	A	A	-	D	B	-	D	A	A	A	B	-	D
Diethyl Sulfate	-	-	-	-	-	-	-	-	A	-	D	-	-	-	-	D	D	-	A	-	A	-	B	-	D
Diethylamine	B	B	D	B	B	B	C	C	B	-	D	D	A	-	-	-	-	B	B	C	D	D	-	-	-
Diethylbenzen	-	-	-	-	-	-	-	-	-	-	-	D	-	-	-	-	-	-	-	-	-	-	-	-	-
Diethylene Ether (Dioxane)	A	-	A	A	-	-	D	-	D	D	-	D	-	-	-	D	D	-	D	-	A	-	D	-	-
Diethylene Glycol	B	A	A	A	A	D	A	C	A	A	A	A	B	A	-	A	A	B	A	A	A	A	A	A	D
Diethylene Triamine	A	-	A	A	-	-	B	-	A	-	D	B	A	-	-	D	D	-	D	-	A	-	B	-	D
Difluorodibromomethane	-	-	-	-	-	-	-	-	B	-	-	-	-	D	-	D	D	-	D	-	A	-	B	-	D
Diisobutyl Ketone	A	-	A	A	-	-	D	-	B	D	D	D	A	-	-	D	D	-	D	-	A	-	B	-	D
Diisobutylene	B	-	B	B	B	A	B	-	D	C	A	B	-	D	-	B	C	A	D	A	A	A	C	A	D
Diisodecyl Adipate	-	-	-	-	-	-	D	-	-	C	C	D	-	-	-	D	-	-	-	-	A	-	-	-	-
Diisodecyl Phthalate	-	-	-	-	-	-	D	-	A	C	C	D	-	-	-	D	-	-	D	-	A	-	-	-	-
Diisooctyl Adipate	A	-	A	A	-	-	D	-	-	C	C	D	A	-	-	D	-	-	-	-	A	-	-	-	-
Diisooctyl Phthalate	-	-	-	-	-	-	D	-	B	C	C	D	-	-	-	D	D	-	-	-	A	-	C	-	-

CHEMICAL COMPATIBILITY

CHEMICALS	METALS					PLASTICS, ELASTOMERS & LEATHER																			
A: Excellent, B: Good, C: Fair to Poor, D: Not recommended - No Data	Aluminum	Carbon Steel	Cast/Ductile Iron	304 Stainless Steel	316 Stainless Steel	Acetal	Buna	CSM (Hypalon)	EPR, EPDM	Fluorocarbon	Fluoroelastomer (FKM)	Geolast (Buna & Polypropylene)	Hastelloy C	TPE	Leather	Nitrile (TS)	Nitrile (TPE)	Nylon	Polychloroprene	Polypropylene	PTFE	PVDF	Santoprene (EPDM & Polypropylene)	UHMWPE	Urethane
Diisooctyl Sebecate	-	-	-	-	-	-	-	-	C	A	B	-	-	-	-	C	D	-	D	-	A	-	D	-	D
Diisopropyl Amine	-	-	-	-	-	-	B	-	-	-	-	-	-	-	-	B	C	-	-	-	A	-	-	-	-
Diisopropyl Benzene	-	-	-	-	-	A	D	-	D	A	A	-	-	D	-	D	D	-	D	-	A	-	C	-	D
Diisopropyl Ketone	-	-	-	A	-	A	D	-	A	D	D	D	-	-	-	D	D	-	D	-	A	A	C	-	D
Dimethyl Aniline	A	-	-	B	B	D	D	-	B	-	D	D	B	-	-	-	-	A	D	D	A	B	-	A	-
Dimethyl Ether	B	-	B	B	-	-	A	-	-	A	-	A	B	-	-	-	-	-	B	-	A	-	-	-	-
Dimethyl Formamide	A	A	A	A	B	D	D	D	B	-	D	D	-	B	-	-	-	A	D	A	A	D	A	A	-
Dimethyl Phthalate	A	-	-	A	B	-	D	-	C	C	C	D	-	A	-	-	-	C	D	B	A	B	B	-	-
Dimethyl Sulfate	-	-	A	-	-	-	D	-	-	D	-	D	-	-	-	-	-	-	-	-	A	-	-	-	-
Dimethyl Sulfide	A	-	A	A	-	-	D	-	-	-	-	D	A	-	-	-	-	-	-	-	A	-	-	-	-
Dimethyl Sulfoxide	-	-	-	-	-	D	-	-	-	-	-	-	-	-	-	-	-	A	-	A	A	-	A	-	-
Dimethylaniline	A	-	-	-	-	D	-	-	B	-	C	-	B	-	-	D	D	-	D	A	A	A	B	A	D
Dinitrotoluene	-	-	-	A	-	-	D	-	D	C	B	D	-	-	-	-	-	-	D	-	A	-	B	-	-
Dioctyl Phthalate	A	A	A	A	A	-	D	-	B	B	B	D	A	A	-	-	-	A	D	D	A	B	C	A	-
Dioctyl Sebecate	A	-	A	A	-	-	D	-	C	C	B	D	A	-	-	-	-	-	D	-	A	-	C	-	-
Dioxane	B	-	A	-	A	-	D	-	-	-	D	-	-	-	-	-	-	A	D	C	A	C	-	-	-
Dioxolane	-	-	-	-	-	-	D	-	B	C	B	-	-	-	-	-	-	-	D	-	A	-	C	-	-
Dipentene	A	-	A	A	A	-	C	-	D	A	A	D	A	-	-	A	C	-	D	-	A	-	C	-	D
Diphenyl	B	B	B	B	B	-	D	B	D	-	A	D	B	-	-	D	D	-	D	D	A	A	C	-	D
Diphenyl Ether	A	-	A	A	A	-	-	-	-	-	-	-	-	-	-	-	-	A	-	D	A	-	-	-	-
Diphenyl Oxide	B	A	A	B	A	D	D	D	D	A	A	D	B	-	-	D	D	-	D	D	A	B	C	-	D
Dipropyl Ketone (Butyrone)	-	-	-	-	-	-	D	-	-	-	D	-	-	D	-	D	D	-	-	-	A	-	-	-	-
Dipropylamine	-	-	-	-	-	-	B	-	-	-	-	-	-	-	-	B	-	-	-	-	A	-	-	-	-
Dipropylene Glycol	-	-	-	-	A	-	A	-	-	A	A	A	-	-	-	A	A	-	-	A	A	B	A	-	-
Disodium Phosphate	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Dispersing Oil #10	A	-	A	A	-	-	D	-	D	C	C	-	A	-	-	D	D	-	D	-	A	-	-	-	-
Divinyl Benzene	-	-	-	-	-	-	D	-	D	A	A	-	-	-	-	D	D	-	D	-	A	-	D	-	-
Dodecyl Benzene (Alkane)	A	-	A	A	-	-	D	-	-	A	A	-	-	-	-	D	D	-	-	-	A	-	-	-	-
Dow (Silicones)	A	-	-	-	-	-	A	-	A	A	A	-	-	B	-	A	A	-	A	-	A	-	A	-	A
Dowtherm A	C	-	B	A	-	-	-	-	D	-	A	-	-	B	-	D	D	-	D	B	A	-	D	-	D
Dowtherm E	-	-	-	-	-	-	-	-	D	-	A	-	-	B	-	D	D	-	D	B	-	-	D	-	D
Dowtherm Oil	C	A	B	A	A	-	D	-	D	A	A	-	A	-	-	-	-	A	D	A	A	D	D	D	-
Drilling Mud (Oil Base)	-	-	-	-	-	-	A	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Drilling Mud (Water Base)	-	-	-	-	-	-	A	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-

CHEMICAL COMPATIBILITY

CHEMICALS	METALS					PLASTICS, ELASTOMERS & LEATHER																			
A: Excellent, B: Good, C: Fair to Poor, D: Not recommended - No Data	Aluminum	Carbon Steel	Cast/Ductile Iron	304 Stainless Steel	316 Stainless Steel	Acetal	Buna	CSM (Hypalon)	EPR, EPDM	Fluorocarbon	Fluoroelastomer (FKM)	Geolast (Buna & Polypropylene)	Hastelloy C	TPE	Leather	Nitrile (TS)	Nitrile (TPE)	Nylon	Polychloroprene	Polypropylene	PTFE	PVDF	Santoprene (EPDM & Polypropylene)	UHMWPE	Urethane
Dry Cleaning Fluid	A	A	A	A	A	-	D	-	D	A	A	-	-	-	-	C	D	-	D	D	A	A	D	D	D
DTE Light Oil	-	-	-	-	-	-	-	-	D	-	A	-	-	B	-	A	B	-	B	-	B	-	D	A	D
Dyes	B	-	B	A	A	C	C	-	-	-	A	-	A	-	-	-	-	A	C	-	-	-	-	-	-
Ehtyl Alcohol (Ethanol)	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Epichlorohydrin	D	A	A	A	A	A	D	-	C	D	D	D	A	D	-	D	D	A	D	B	A	D	B	-	D
Epsom Salts (Magnesium Sulfate)	B	A	A	A	B	B	A	A	A	A	A	A	B	-	-	A	A	B	A	A	A	A	A	A	-
Esam-6 Fluid	-	-	-	-	-	-	-	-	A	-	D	-	-	-	-	-	-	-	B	-	-	-	B	-	-
Esstic 42,43	-	-	-	-	-	-	-	-	D	-	A	-	-	D	-	A	A	-	B	-	-	-	D	-	B
Ethane	A	A	A	A	A	A	A	B	D	A	A	A	A	-	-	A	C	D	C	D	A	A	C	-	B
Ethanol (Ethyl Alcohol)	B	B	B	A	A	A	C	A	A	-	A	-	A	A	-	A	A	C	A	A	A	A	A	A	D
Ethanol Chloride	-	-	-	-	-	-	-	-	C	-	B	-	-	-	-	D	D	-	D	-	A	-	B	-	-
Ethanolamine	B	A	B	A	A	D	B	C	B	D	D	A	B	-	-	B	B	A	C	D	A	D	A	A	C
Ether	B	C	C	A	A	A	D	D	C	-	C	D	B	-	-	-	-	A	D	D	A	B	-	-	-
Ether Sulfate	-	B	-	D	D	-	-	-	-	-	-	-	-	-	-	-	-	A	-	-	A	-	-	-	-
Ethers	B	B	C	B	B	A	-	-	C	-	D	-	B	D	A	D	D	A	D	D	A	D	C	D	D
Ethlyene Oxide	-	-	-	-	-	-	-	-	-	-	-	D	-	-	-	-	-	-	-	-	-	-	-	-	-
Ethlyene Trichloride (Trichloroethene)	-	-	-	-	-	-	-	-	-	-	-	D	-	-	-	-	-	-	-	-	-	-	-	-	-
Ethyl (Liquor)	-	-	-	-	-	-	-	-	-	-	-	A	-	-	-	-	-	-	-	-	-	-	-	-	-
Ethyl Acetate	B	A	A	B	B	A	D	D	B	D	D	D	B	B	-	D	D	B	D	C	A	D	C	B	D
Ethyl Acetate 120° F	B	-	B	B	B	A	-	-	-	-	-	-	-	-	-	-	-	A	-	B	A	-	-	A	-
Ethyl Acetate 140° F	B	-	B	B	B	-	-	-	-	-	-	-	-	-	-	-	-	B	-	B	A	D	-	D	-
Ethyl Acetate 70° F	B	B	B	B	B	A	-	-	-	-	-	-	-	C	-	-	-	A	-	A	A	A	A	A	-
Ethyl Acetoacetate	A	-	A	A	-	A	D	-	C	D	D	D	A	D	-	D	D	-	D	-	A	A	C	A	D
Ethyl Acrylate	A	-	A	A	A	A	D	-	C	D	D	D	A	-	-	D	D	-	D	D	A	C	C	-	D
Ethyl Alchol (Ethanol)	B	-	B	A	-	-	A	-	-	B	-	-	A	-	-	-	-	D	A	A	A	A	B	A	-
Ethyl Alcohol (Ethanol)	B	-	B	A	-	-	A	-	A	B	A	-	A	A	-	A	A	D	A	A	A	A	A	A	D
Ethyl Aluminum Dichloride	-	-	-	-	-	-	D	-	-	B	B	-	-	-	-	D	D	-	-	-	A	-	-	-	-
Ethyl Amine (Monoethylamine)	B	-	B	A	-	-	D	-	A	D	D	-	-	-	-	D	-	-	D	-	A	-	-	-	D
Ethyl Benzene	B	A	B	B	B	A	D	-	D	A	A	D	A	-	-	D	D	-	D	D	A	C	D	A	D
Ethyl Benzoate	A	A	A	A	A	A	D	-	D	A	A	D	A	-	-	D	D	D	D	C	A	D	C	-	D
Ethyl Bromide (Bromoethane)	A	-	A	A	-	-	D	-	D	-	A	D	-	-	-	B	C	-	D	D	A	-	D	-	D
Ethyl Butyl Acetate	-	-	-	-	-	-	D	-	-	D	D	-	-	-	-	D	D	-	-	-	A	-	-	-	-
Ethyl Butyl Alcohol	-	-	-	-	-	-	A	-	-	B	B	-	-	D	-	A	A	-	-	-	A	-	-	-	D
Ethyl Butyl Ketone	-	-	-	-	-	-	D	-	-	D	D	-	-	-	-	D	D	-	-	-	A	-	-	-	-

CHEMICAL COMPATIBILITY

CHEMICALS	METALS					PLASTICS, ELASTOMERS & LEATHER																			
A: Excellent, B: Good, C: Fair to Poor, D: Not recommended - No Data	Aluminum	Carbon Steel	Cast/Ductile Iron	304 Stainless Steel	316 Stainless Steel	Acetal	Buna	CSM (Hypalon)	EPR, EPDM	Fluorocarbon	Fluoroelastomer (FKM)	Geolast (Buna & Polypropylene)	Hastelloy C	TPE	Leather	Nitrile (TS)	Nitrile (TPE)	Nylon	Polychloroprene	Polypropylene	PTFE	PVDF	Santoprene (EPDM & Polypropylene)	UHMWPE	Urethane
Ethyl Butyraldehyde	-	-	-	-	-	-	D	-	-	D	D	-	-	-	-	D	D	-	-	-	A	-	-	-	-
Ethyl Butyrate	B	A	B	A	A	-	D	-	D	C	C	D	A	-	-	D	D	A	D	D	A	-	-	C	-
Ethyl Caprylate	-	-	-	-	-	-	D	-	D	-	-	-	-	-	-	D	D	-	D	-	A	-	-	-	-
Ethyl Cellosolve	-	-	-	-	-	-	C	-	B	D	B	-	-	-	-	-	-	-	C	-	A	-	B	-	-
Ethyl Cellulose	B	-	A	B	B	A	B	-	B	C	D	B	B	B	-	B	B	B	B	C	A	-	A	-	B
Ethyl Chloride	D	C	C	A	A	A	A	D	A	A	A	B	B	C	-	A	C	B	D	D	A	A	D	D	C
Ethyl Chloride Wet	B	-	D	D	A	A	A	-	A	-	A	-	-	D	-	-	-	A	D	D	A	A	D	D	-
Ethyl Chlorocarbonate	D	-	A	-	-	A	-	-	D	A	A	-	-	D	-	D	D	-	D	-	A	-	A	-	D
Ethyl Chloroformate	D	-	-	-	-	A	-	-	D	-	A	-	-	D	-	D	D	-	D	D	A	-	C	-	D
Ethyl Cyanide (Propionitrile)	-	-	-	-	-	-	D	-	A	D	D	-	-	-	-	D	D	-	B	-	A	-	-	-	-
Ethyl Ether	C	C	C	B	B	B	D	D	D	-	D	D	B	-	-	D	D	B	D	D	A	B	D	D	D
Ethyl Formate	C	-	A	B	B	A	D	-	C	A	C	D	B	D	-	D	D	-	B	-	A	-	B	C	-
Ethyl Hexyl Acetate	-	-	-	-	-	-	-	-	-	-	D	-	-	D	-	D	-	-	-	-	A	-	-	-	-
Ethyl Hexyl Alcohol (Ethylhexanol)	A	-	A	A	-	-	-	-	A	-	A	-	A	D	-	A	A	-	A	-	A	-	A	-	D
Ethyl Iodide	-	-	-	-	-	-	-	-	C	-	B	-	-	-	-	D	-	-	D	-	A	-	-	-	-
Ethyl Isobutyrate	-	-	-	-	-	-	D	-	D	-	-	-	-	-	-	D	-	-	D	-	A	-	-	-	-
Ethyl Mercaptan	B	-	A	B	B	-	D	-	D	B	B	D	B	-	-	D	D	-	D	-	A	-	C	-	A
Ethyl Oxalate	A	-	-	-	-	-	D	-	A	B	B	-	-	D	-	D	D	-	D	-	A	-	B	-	A
Ethyl Pentachlorobenzene	D	-	-	-	-	-	D	-	D	A	A	-	-	-	-	D	D	-	D	D	A	-	D	-	C
Ethyl Propionate	A	-	A	A	-	-	D	-	D	-	-	D	A	D	-	D	D	-	D	-	A	-	D	-	-
Ethyl Silicate	B	-	A	A	A	-	A	-	A	A	A	A	A	B	-	A	B	-	A	-	A	-	B	C	D
Ethyl Sulfate	-	-	-	D	D	-	A	-	A	A	D	A	-	-	-	D	D	A	A	-	A	-	B	-	D
Ethylacrylic Acid	-	-	-	-	-	-	-	-	B	-	D	-	-	-	-	D	D	-	B	-	A	-	C	-	D
Ethylcyclopentane	-	-	-	-	-	-	-	-	D	-	A	-	-	-	-	A	-	-	C	-	-	-	-	-	A
Ethylene (Ethene)	A	-	A	A	A	A	B	-	D	A	A	B	-	D	-	A	B	-	C	-	A	-	C	-	B
Ethylene Bromide	D	-	B	A	B	-	D	C	C	-	A	-	B	-	-	-	-	-	C	D	A	A	-	-	-
Ethylene Chloride	D	-	C	B	B	A	D	D	D	-	C	D	B	C	-	D	D	B	D	D	A	A	D	C	D
Ethylene Chlorohydrin	D	B	B	B	B	D	D	C	B	B	B	D	B	D	-	D	D	D	B	D	A	B	D	-	D
Ethylene Diamine	D	A	A	B	B	D	B	B	A	D	D	B	C	-	-	B	B	D	B	A	A	D	A	A	D
Ethylene Dibromide	D	-	D	B	B	-	D	-	D	B	A	D	B	-	-	D	D	-	D	D	A	A	D	-	D
Ethylene Dichloride	D	A	B	B	B	C	D	D	D	B	B	B	B	D	A	D	C	B	D	D	A	A	D	D	D
Ethylene Glycol	B	B	B	B	B	B	A	A	A	A	A	-	B	C	-	A	A	B	A	A	A	A	A	A	B
Ethylene Glycol Monobutyl Ether (Butyl Cellosolve)	A	-	A	A	-	-	B	-	B	C	-	B	A	-	-	-	-	-	D	-	A	-	-	-	-
Ethylene Glycol Monoethyl Ether Acetate	A	-	A	A	-	-	C	-	B	C	-	D	A	-	-	-	-	-	D	-	A	-	-	-	-

CHEMICAL COMPATIBILITY

CHEMICALS	METALS					PLASTICS, ELASTOMERS & LEATHER																			
A: Excellent, B: Good, C: Fair to Poor, D: Not recommended - No Data	Aluminum	Carbon Steel	Cast/Ductile Iron	304 Stainless Steel	316 Stainless Steel	Acetal	Buna	CSM (Hypalon)	EPR, EPDM	Fluorocarbon	Fluoroelastomer (FKM)	Geolast (Buna & Polypropylene)	Hastelloy C	TPE	Leather	Nitrile (TS)	Nitrile (TPE)	Nylon	Polychloroprene	Polypropylene	PTFE	PVDF	Santoprene (EPDM & Polypropylene)	UHMWPE	Urethane
Ethylene Glycol Monomethyl Ether (Methyl Cellosolve®)	B	-	B	A	-	-	C	-	B	D	-	-	A	-	-	-	-	-	C	-	A	-	-	-	-
Ethylene Oxide	D	D	D	C	C	D	D	D	D	C	D	-	A	A	-	D	A	A	D	D	A	B	A	C	D
Ethylene Trichloride	D	-	A	A	A	-	D	-	D	A	A	-	-	-	-	D	-	-	D	D	A	A	D	-	D
Ethylhexyl Acetate	-	-	-	-	-	-	D	-	-	D	-	-	-	-	-	-	-	-	-	-	A	-	-	-	-
Ethylhexyl Alcohol (Ethylhexanol)	A	-	A	A	-	-	A	-	-	B	-	-	A	-	-	-	-	-	-	-	A	-	-	-	-
Ethylidene Chloride	D	-	B	A	-	-	D	-	D	-	-	-	B	-	-	D	D	-	D	-	A	-	D	-	-
Ethyl Cellosolve	-	-	-	-	-	A	-	-	B	-	D	-	-	-	-	D	C	-	D	-	A	-	B	-	D
Fatty Acids	B	C	D	B	A	B	C	B	D	A	A	B	A	D	A	B	B	B	C	B	A	A	D	A	D
Ferric Chloride	D	D	D	D	D	D	A	B	A	A	A	A	B	C	A	A	A	D	B	B	A	A	A	D	A
Ferric Chloride Concentrated	D	D	D	D	D	A	A	-	A	-	A	-	-	-	A	-	-	D	A	B	A	A	-	A	-
Ferric Hydroxide	-	-	-	A	-	-	B	-	B	C	B	-	B	-	-	B	B	-	B	-	A	-	B	-	-
Ferric Nitrate	D	D	D	B	B	D	A	A	A	A	A	A	B	D	A	A	A	D	B	A	A	A	A	A	A
Ferric Sulfate	D	D	D	B	A	D	B	A	A	A	A	A	A	A	-	A	A	D	A	B	A	A	A	A	A
Ferrous Chloride	D	D	D	D	D	D	B	A	A	A	A	A	B	A	-	B	B	D	A	A	A	A	A	A	D
Ferrous Sulfate	D	D	D	B	B	D	B	B	A	A	B	A	B	A	-	B	A	D	A	A	A	A	A	A	A
Fish Oil	-	-	-	-	-	-	A	-	D	A	A	B	-	B	-	A	A	-	B	-	A	-	B	A	B
Flouboric Acid	D	-	D	B	-	-	-	-	A	-	A	-	A	D	-	A	A	-	A	A	A	A	A	A	D
Flourine (Anhydrous)	D	-	D	A	-	A	-	-	D	-	B	-	B	D	-	D	D	-	D	D	B	A	D	-	D
Fluorolube (Fluoro Carbonoil)	A	-	A	A	-	-	-	-	A	-	B	-	A	D	-	A	-	-	A	D	A	-	-	-	-
Fluoboric Acid	D	D	D	B	B	A	B	A	A	C	B	A	A	D	-	-	-	D	B	A	A	A	A	A	-
Fluorinated Cyclic Ethers	D	-	-	-	-	-	-	-	A	-	A	-	-	-	-	D	D	-	D	D	A	-	D	-	-
Fluorine	A	D	D	C	A	D	D	-	A	-	C	D	B	-	-	-	-	D	-	D	D	A	-	-	-
Fluorine (Liquid)	D	-	D	A	A	-	D	-	C	B	B	-	B	-	-	-	-	D	D	D	A	A	D	A	-
Fluorine Gas Dry - 300° F	B	-	D	A	B	D	-	-	-	-	-	-	-	D	-	-	-	D	-	D	D	D	-	D	-
Fluorine Gas Wet	D	-	D	D	D	-	D	-	D	-	-	-	-	-	-	-	-	D	D	D	A	A	-	C	-
Fluorobenzene	D	-	-	-	-	A	D	-	D	A	A	D	-	-	-	D	D	-	D	D	A	-	C	-	-
Fluorocarbon Oils	D	-	A	A	-	-	C	-	A	B	-	D	A	-	-	-	D	-	A	D	A	-	D	-	-
Fluorochloroethylene	-	-	-	-	-	-	-	-	D	-	A	-	-	-	-	D	D	-	D	-	A	-	C	-	-
Fluorolube	-	-	-	-	-	-	C	-	-	-	B	-	-	-	-	-	-	-	A	-	A	-	-	-	-
Fluorosulfonic Acid	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Fluosilicic Acid	D	D	D	C	B	A	B	A	B	A	B	A	B	B	-	A	A	D	B	A	A	B	A	A	B
Formaldehyde	B	C	D	D	A	B	C	C	A	A	D	B	B	C	-	C	A	D	D	C	B	A	B	A	D
Formaldehyde 40%	B	B	B	A	A	A	B	B	A	-	A	-	B	B	-	-	-	A	B	A	A	A	-	-	-
Formamide	A	-	B	B	-	-	A	-	A	D	D	-	B	D	-	A	A	-	A	-	A	-	A	-	-

CHEMICAL COMPATIBILITY

CHEMICALS	METALS					PLASTICS, ELASTOMERS & LEATHER																			
A: Excellent, B: Good, C: Fair to Poor, D: Not recommended - No Data	Aluminum	Carbon Steel	Cast/Ductile Iron	304 Stainless Steel	316 Stainless Steel	Acetal	Buna	CSM (Hypalon)	EPR, EPDM	Fluorocarbon	Fluoroelastomer (FKM)	Geolast (Buna & Polypropylene)	Hastelloy C	TPE	Leather	Nitrile (TS)	Nitrile (TPE)	Nylon	Polychloroprene	Polypropylene	PTFE	PVDF	Santoprene (EPDM & Polypropylene)	UHMWPE	Urethane
Formic Acid	D	D	D	C	C	D	D	A	B	C	C	D	A	C	-	D	A	D	D	B	A	A	A	A	D
Freon - Wet	B	-	D	C	D	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Freon 11	D	A	C	A	A	A	C	-	D	B	C	-	A	A	-	A	C	D	D	D	A	B	D	-	D
Freon 112	D	A	A	A	A	A	B	-	D	-	A	-	-	-	-	B	B	-	B	-	A	-	-	-	B
Freon 113	D	A	A	A	A	A	B	A	D	B	C	-	A	A	-	A	D	-	C	D	A	B	D	-	B
Freon 114	D	A	A	A	A	A	A	-	D	A	A	-	-	A	-	A	B	-	A	D	A	A	D	-	A
Freon 114B2	D	A	A	A	A	-	B	-	D	B	B	-	-	A	-	-	-	-	A	-	A	-	D	-	D
Freon 115	D	A	A	A	A	-	A	-	A	B	B	-	-	-	-	-	-	-	A	-	A	-	D	-	-
Freon 12	D	A	A	B	B	B	B	A	B	B	B	-	A	A	-	A	C	B	B	B	A	B	D	-	A
Freon 12 (Wet)	D	-	A	-	A	-	A	-	-	-	A	-	A	-	-	-	-	D	B	B	A	A	-	-	-
Freon 13	D	A	A	A	A	A	A	-	A	A	A	-	A	C	-	A	D	-	A	D	A	A	D	-	C
Freon 13B1	D	A	A	A	A	-	A	-	A	A	A	-	-	-	-	A	D	-	A	-	A	-	-	-	A
Freon 14	D	A	A	A	A	-	D	-	B	-	A	-	-	-	-	A	A	-	D	-	A	-	-	-	A
Freon 142B	D	-	-	-	-	A	D	-	A	-	D	-	-	-	-	A	-	-	A	-	A	-	-	-	-
Freon 15	C	-	-	-	-	A	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Freon 152A	D	-	-	-	-	A	A	-	A	-	D	-	-	-	-	A	-	-	A	-	A	-	-	-	-
Freon 21	D	A	A	A	A	A	D	-	D	D	D	-	-	-	-	D	D	-	D	D	A	A	D	-	-
Freon 218	D	-	-	-	-	A	A	-	-	-	A	-	-	-	-	A	-	-	A	-	A	-	-	-	-
Freon 21B	D	-	-	-	-	-	A	-	-	-	A	-	-	-	-	-	-	-	A	-	A	-	-	-	-
Freon 22	D	D	D	A	A	A	D	B	C	D	D	-	A	D	-	D	D	B	B	D	A	B	D	-	D
Freon 31	D	A	A	A	A	A	D	-	A	-	D	-	-	-	-	D	D	-	A	-	A	-	-	-	-
Freon 32	D	A	A	A	A	A	A	-	A	-	D	-	-	-	-	A	D	-	A	-	A	-	-	-	-
Freon 502	D	-	A	A	A	A	B	-	A	-	B	-	-	D	-	B	-	-	A	-	A	-	-	-	-
Freon Bf	D	A	A	A	A	-	B	-	D	-	A	-	-	-	-	-	-	-	B	-	A	-	-	-	-
Freon C316	D	-	-	-	-	A	A	-	A	-	A	-	-	-	-	A	-	-	A	-	A	-	-	-	-
Freon C318	D	A	A	A	A	A	A	-	A	-	B	-	-	-	-	A	-	-	A	-	A	-	-	-	-
Freon Dry	A	-	B	A	A	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Freon Dry F11	D	-	A	A	A	B	-	-	-	-	-	-	-	-	-	-	-	-	-	D	-	A	-	-	-
Freon Dry F12, F113, F114	D	-	A	A	A	B	-	-	-	-	-	-	-	-	-	-	-	-	-	D	-	A	-	-	-
Freon Dry F21, F22	D	-	A	A	A	B	-	-	-	-	-	-	-	-	-	-	-	-	-	D	-	A	-	-	-
Freon K-142B	D	A	A	A	A	A	A	-	A	-	D	-	-	-	-	-	-	-	A	-	-	-	-	-	-
Freon K-152A	D	-	-	-	-	A	A	-	A	-	D	-	-	-	-	-	-	-	A	-	-	-	-	-	-
Freon K-152K	D	A	A	A	A	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Freon Mf	D	A	A	A	A	-	B	-	D	-	B	-	-	A	-	-	-	-	D	-	A	-	B	-	-

CHEMICAL COMPATIBILITY

CHEMICALS	METALS					PLASTICS, ELASTOMERS & LEATHER																			
A: Excellent, B: Good, C: Fair to Poor, D: Not recommended - No Data	Aluminum	Carbon Steel	Cast/Ductile Iron	304 Stainless Steel	316 Stainless Steel	Acetal	Buna	CSM (Hypalon)	EPR, EPDM	Fluorocarbon	Fluoroelastomer (FKM)	Geolast (Buna & Polypropylene)	Hastelloy C	TPE	Leather	Nitrile (TS)	Nitrile (TPE)	Nylon	Polychloroprene	Polypropylene	PTFE	PVDF	Santoprene (EPDM & Polypropylene)	UHMWPE	Urethane
Freon Pca	D	A	A	A	A	-	A	-	D	-	B	-	-	-	-	-	-	-	A	-	-	-	-	-	-
Freon Ta	D	-	-	-	-	-	A	-	A	-	D	-	-	-	-	A	-	-	A	-	A	-	-	-	A
Freon Tc	D	-	-	-	-	-	A	-	B	-	A	-	-	-	-	A	-	-	A	-	A	-	-	-	A
Freon TF	D	A	A	A	A	A	A	A	D	-	B	-	A	A	-	-	-	D	A	D	A	B	D	-	-
Freon Tmc	D	-	-	-	-	-	B	-	B	-	A	-	-	A	-	B	-	-	B	-	A	-	-	-	B
Freon T-P35	D	-	-	-	-	-	A	-	A	-	A	-	-	-	-	A	-	-	A	-	A	-	-	-	A
Freon T-Wd602	D	-	-	-	-	-	B	-	B	-	A	-	-	-	-	B	-	-	B	-	A	-	-	-	A
Freon, BF	D	-	-	-	-	-	-	-	D	-	A	-	-	-	-	A	-	-	B	-	A	-	-	-	-
Freon, MF	D	-	-	-	-	-	-	-	D	-	D	-	-	A	-	A	-	-	D	-	A	-	-	-	D
Freon, PCA	D	-	-	-	-	-	-	-	D	-	B	-	-	-	-	A	-	-	A	-	-	-	-	-	A
Freon, TF	D	-	A	A	-	A	-	-	D	-	B	-	A	A	-	A	-	-	A	-	A	B	D	-	B
Freonr 11	D	A	A	A	A	D	B	B	D	-	B	-	A	A	-	-	-	D	D	A	A	A	-	-	-
Fruit Juice	B	D	D	A	A	D	A	B	A	A	A	A	A	-	-	-	-	D	A	B	A	A	A	A	-
Fuel Oils (ASTM #1 thru #9)	C	A	A	A	A	C	A	C	D	A	A	-	A	B	A	A	B	B	C	C	B	B	C	D	D
Fumaric Acid (Boletic Acid)	-	-	-	-	-	-	C	-	B	A	A	-	-	B	-	A	-	-	B	-	A	-	A	C	-
Fuming Sulphuric Acid (20%/50% Oleum)	-	-	-	-	-	-	-	-	A	-	-	-	-	D	-	D	-	-	D	-	D	-	A	-	D
Furan (Furfuran)	A	-	A	A	A	-	D	-	D	C	D	D	-	-	-	D	D	-	D	C	A	D	C	-	-
Furan Resin	A	-	-	A	A	D	D	D	C	-	D	-	B	-	-	-	-	-	D	D	A	D	-	-	-
Furfural (Ant Oil)	A	B	B	B	B	B	D	B	D	C	D	D	B	B	-	D	D	B	D	D	A	B	C	B	D
Furfuryl Alcohol	A	-	A	A	-	-	D	-	B	D	D	D	A	B	-	D	D	-	D	-	A	B	C	-	D
Furyl Carbinol	-	-	-	-	-	-	-	-	B	-	D	-	-	-	-	D	D	-	D	-	A	-	-	-	D
Fusel Oil (Grain Oil)	-	-	-	-	-	-	A	-	A	A	A	-	-	-	-	A	-	-	B	-	A	-	-	-	C
Galcial Acetic Acid	-	-	-	-	-	-	-	-	A	-	D	-	-	D	-	D	D	-	D	-	A	-	A	A	D
Gallic Acid	D	D	D	B	B	-	D	D	B	A	A	B	B	D	A	B	D	B	C	A	B	B	B	A	D
Gas	-	-	-	-	-	A	A	-	D	-	A	-	-	-	-	-	-	A	C	B	A	A	-	-	-
Gas Natural	A	A	A	A	A	A	A	-	D	-	A	-	-	B	-	-	-	A	C	B	A	A	D	-	-
Gasoline (Aviation)	A	A	A	A	A	A	-	-	D	-	A	-	-	A	A	A	D	-	D	D	A	A	C	C	C
Gasoline (high-aromatic)	D	A	A	A	A	B	A	B	D	-	A	-	A	A	-	-	-	A	A	A	B	A	-	-	-
Gasoline (Leaded)	A	-	A	A	A	A	A	B	D	-	A	D	A	A	-	A	C	A	D	D	A	A	C	-	C
Gasoline (Meter)	A	A	A	A	A	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Gasoline (Petrol)	A	-	A	A	-	A	A	-	D	A	-	-	A	-	-	-	-	A	C	C	A	A	C	C	-
Gasoline (Unleaded)	A	A	A	A	A	A	D	A	D	A	A	D	A	-	-	D	C	A	D	D	A	C	C	B	D
Gasoline Leaded Refined	B	-	B	A	A	B	-	-	-	-	-	-	-	A	-	-	-	A	-	C	A	D	-	C	-
Gasoline Sour	D	B	B	A	A	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-

CHEMICAL COMPATIBILITY

CHEMICALS	METALS					PLASTICS, ELASTOMERS & LEATHER																			
A: Excellent, B: Good, C: Fair to Poor, D: Not recommended - No Data	Aluminum	Carbon Steel	Cast/Ductile Iron	304 Stainless Steel	316 Stainless Steel	Acetal	Buna	CSM (Hypalon)	EPR, EPDM	Fluorocarbon	Fluoroelastomer (FKM)	Geolast (Buna & Polypropylene)	Hastelloy C	TPE	Leather	Nitrile (TS)	Nitrile (TPE)	Nylon	Polychloroprene	Polypropylene	PTFE	PVDF	Santoprene (EPDM & Polypropylene)	UHMWPE	Urethane
Gasoline Unleaded Refined	A	-	B	A	A	B	-	-	-	-	-	-	-	A	-	-	-	A	-	C	A	D	-	C	-
Gelatin	B	A	D	A	A	B	A	B	A	B	A	A	A	B	-	A	A	B	A	A	A	A	A	A	D
Glauber's Salt	-	-	-	-	-	-	A	-	B	A	A	-	-	B	-	A	-	-	A	-	A	-	-	A	A
Gluconic Acid	B	-	C	A	-	-	C	-	-	A	-	-	-	-	-	-	-	-	-	A	A	-	-	-	-
Glucose (Corn Syrup)	A	A	B	A	A	A	A	B	A	A	A	A	A	B	A	A	A	B	A	A	A	A	A	A	A
Glue (PVA)	C	A	B	B	A	B	D	A	B	A	B	A	A	B	-	A	D	A	A	B	A	A	A	A	A
Glycerin (Glycerol)	A	B	B	A	A	A	A	A	A	A	A	A	A	B	A	A	A	C	A	A	A	A	D	A	D
Glycol	B	-	B	B	B	B	A	-	A	-	A	-	-	-	-	-	-	C	A	A	A	A	-	A	-
Glycolic Acid	-	-	D	A	A	A	A	A	A	A	A	A	A	-	-	A	A	-	A	A	A	B	A	A	-
Glycols	B	-	B	B	B	A	A	-	-	A	A	-	-	-	-	-	-	B	A	A	A	A	A	A	-
Gold Monocyanide	-	D	D	D	A	A	A	-	-	A	A	A	A	-	-	-	-	-	A	-	D	A	A	-	-
Grape Juice	B	D	D	A	A	B	C	-	A	A	A	A	-	-	-	A	A	A	D	A	A	A	A	A	D
Grapefruit Oil	-	D	D	A	A	-	D	-	-	-	A	-	-	-	-	A	-	-	D	-	A	-	A	-	-
Grease	A	A	A	A	A	D	A	-	D	A	A	-	A	-	-	-	-	-	D	-	A	A	B	-	-
Grease (Ester Base)	A	A	A	A	A	A	-	-	-	-	A	-	A	-	-	C	C	A	-	A	A	A	B	-	-
Grease (Petroleum Base)	A	A	A	A	A	A	A	-	D	-	A	A	A	A	-	A	A	A	D	A	A	A	D	-	A
Grease (Silicone Base)	A	A	A	A	A	A	-	-	-	-	-	-	A	-	-	A	A	A	-	A	A	A	B	-	-
Green Sulfate Liquor	B	-	C	A	-	-	B	-	A	A	A	-	B	D	-	B	B	-	B	A	A	-	A	A	A
Halothane	-	-	-	-	-	-	-	-	-	-	A	-	-	-	-	D	D	-	D	-	-	-	-	-	D
Halowax Oil	D	-	-	-	-	-	D	-	D	A	A	-	-	-	-	D	D	-	D	-	A	-	D	-	-
Hannifin Lube A	-	-	-	-	-	-	-	-	D	-	A	-	-	-	-	A	A	-	A	-	-	-	D	-	A
Heavy Water	A	-	C	A	-	-	-	-	A	-	-	-	A	B	-	A	A	-	-	-	-	-	B	-	D
HEF - 2 (High Energy Fuel)	-	-	-	-	-	-	-	-	D	-	A	-	-	-	-	B	B	-	A	-	-	-	D	-	D
Helium	A	-	A	A	A	A	-	-	A	-	A	-	-	-	-	A	A	A	A	A	A	-	A	-	A
Heptanal	A	-	A	A	-	-	A	-	-	A	-	A	A	-	-	-	-	-	-	A	-	-	-	-	-
Heptane	A	A	A	A	A	B	A	B	D	A	A	A	A	B	A	A	B	A	C	D	A	A	C	A	B
Hexalin	-	-	-	-	-	-	B	-	C	A	-	-	-	-	-	-	-	-	A	-	A	-	-	-	-
Hexamine	D	A	A	A	A	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	A	-	-	-	-
Hexanal	A	-	B	A	-	-	D	-	B	C	-	D	B	-	-	-	-	-	A	-	A	-	-	-	-
Hexane	A	A	A	A	A	C	A	B	D	-	A	A	A	A	A	A	B	B	D	C	A	A	C	C	B
Hexanol	A	-	A	A	-	A	-	-	A	-	A	-	A	D	-	A	A	-	B	A	A	-	C	-	D
Hexanol Tertiary	A	A	A	A	A	A	-	-	-	-	-	-	-	-	-	-	-	A	-	B	A	-	-	-	-
Hexyl (Hexanol)	-	-	-	-	-	-	-	-	-	-	-	A	-	-	-	-	-	-	-	-	-	-	-	-	-
Hexyl Alcohol	A	-	-	A	-	-	A	-	-	A	-	-	A	-	-	-	-	-	B	A	A	A	B	A	-

CHEMICAL COMPATIBILITY

CHEMICALS	METALS					PLASTICS, ELASTOMERS & LEATHER																			
A: Excellent, B: Good, C: Fair to Poor, D: Not recommended - No Data	Aluminum	Carbon Steel	Cast/Ductile Iron	304 Stainless Steel	316 Stainless Steel	Acetal	Buna	CSM (Hypalon)	EPR, EPDM	Fluorocarbon	Fluoroelastomer (FKM)	Geolast (Buna & Polypropylene)	Hastelloy C	TPE	Leather	Nitrile (TS)	Nitrile (TPE)	Nylon	Polychloroprene	Polypropylene	PTFE	PVDF	Santoprene (EPDM & Polypropylene)	UHMWPE	Urethane
Hexyl Alcohol	A	-	A	A	-	-	A	-	C	A	B	-	-	D	-	B	B	-	B	-	A	A	B	C	D
Hexylene Glycol (Brake Fluid)	A	-	A	A	-	-	A	-	C	A	A	-	A	D	-	A	-	-	A	-	A	-	-	-	-
Hilo MS #1	-	-	-	-	-	-	-	-	A	-	D	-	-	D	-	D	D	-	D	-	-	-	-	-	B
Honey	A	A	A	A	A	A	A	-	A	-	A	A	A	-	-	-	-	A	A	A	A	A	A	-	-
Houghto-Safe 1010, Phosphate Ester	-	-	-	-	-	-	-	-	A	-	A	-	-	B	-	D	D	-	D	-	A	-	A	-	A
Houghto-Safe 1055, Phosphate Ester	-	-	-	-	-	-	-	-	A	-	A	-	-	B	-	D	D	-	D	-	A	-	A	-	A
Houghto-Safe 1120, Phosphate	-	-	-	-	-	-	-	-	A	-	A	-	-	B	-	D	D	-	D	-	A	-	A	-	A
Houghto-Safe 271 (Water & Glycol Base)	-	-	-	-	-	-	-	-	A	-	B	-	-	B	-	A	-	-	B	-	A	-	A	-	D
Houghto-Safe 5040 (Water/Oil Emulsion)	-	-	-	-	-	-	-	-	D	-	A	-	-	B	-	A	A	-	B	-	A	-	D	-	D
Houghto-Safe 620 Water/Glycol	-	-	-	-	-	-	-	-	A	-	B	-	-	A	-	A	A	-	B	-	A	-	A	-	B
Hydraulic Oil (Petro)	A	A	A	A	A	B	A	A	D	-	A	-	A	-	-	-	-	A	A	D	A	A	-	-	-
Hydraulic Oil (Petroleum Base)	A	A	A	A	A	C	A	-	D	A	A	A	A	A	A	-	-	A	B	D	A	-	D	A	-
Hydraulic Oil (Petroleum)	A	-	A	A	A	B	A	-	D	-	A	-	A	A	-	A	A	A	B	D	A	-	D	A	-
Hydraulic Oil (Synthetic)	A	A	A	A	A	B	D	A	D	-	A	D	A	A	-	D	A	A	D	D	A	A	D	A	B
Hydrazine	B	D	D	A	A	B	C	B	A	D	D	B	A	D	-	B	D	-	C	D	A	D	A	-	D
Hydrobromic Acid	D	D	D	D	D	D	D	A	A	A	A	D	D	-	-	D	D	D	D	C	A	A	B	A	-
Hydrobromic Acid 20%	D	D	D	D	D	C	D	A	A	-	A	-	A	-	-	-	-	D	D	A	-	A	-	-	-
Hydrocarbons (Saturated)	-	-	-	-	-	-	A	-	D	-	A	-	-	-	-	-	-	-	B	-	-	-	-	-	-
Hydrochloric Acid - 10%	D	D	D	D	D	D	B	-	A	A	A	-	B	D	-	-	-	D	D	A	A	A	A	A	-
Hydrochloric Acid - 20%	D	D	D	D	D	D	C	A	A	A	A	B	D	D	-	D	D	D	D	B	A	A	A	A	B
Hydrochloric Acid - 30%	D	-	D	D	-	D	C	-	A	B	B	-	A	D	-	-	-	D	D	B	A	A	C	C	-
Hydrochloric Acid - 37%	D	D	D	D	D	D	B	B	C	-	A	D	B	D	-	B	D	D	D	C	A	A	B	A	D
Hydrochloric Acid - 37% (Cold)	D	-	D	-	D	-	C	-	-	-	A	-	D	-	-	-	-	D	D	A	A	A	-	-	-
Hydrochloric Acid - 37% (Hot)	D	-	D	-	D	-	D	-	-	-	A	-	D	-	-	-	-	D	D	-	A	A	-	-	-
Hydrochloric Acid 100%	D	D	D	D	D	C	D	D	D	-	A	-	A	-	-	-	-	D	D	B	A	A	-	-	-
Hydrochloric Acid, Dry Gas	D	-	-	D	D	-	-	-	-	-	-	-	A	-	-	-	-	A	-	B	A	A	-	-	-
Hydrocyanic Acid	A	D	D	B	A	D	C	A	B	A	A	B	D	D	-	B	D	D	C	A	A	A	B	A	D
Hydrocyanic Acid (Gas 10%)	-	-	-	-	-	C	B	-	A	-	A	-	-	-	-	-	-	-	A	A	A	-	-	-	-
Hydrofluoric Acid	D	D	D	D	D	D	D	-	C	-	A	-	-	D	-	-	-	D	D	A	A	A	D	A	-
Hydrofluoric Acid (20%)	D	-	D	-	D	-	D	-	-	-	A	-	D	-	-	-	-	D	C	A	A	A	-	-	-
Hydrofluoric Acid (50%)	D	-	D	-	D	-	D	-	-	-	A	-	D	-	-	-	-	D	C	A	A	A	-	-	-
Hydrofluoric Acid (75%)	D	-	D	-	D	-	D	-	-	-	A	-	D	-	-	-	-	D	D	C	A	A	-	-	-
Hydrofluoric Acid (Conc-) (Hot)	D	-	D	-	D	-	D	-	-	-	B	-	D	-	-	-	-	D	D	D	A	A	-	-	-
Hydrofluoric Acid (Conc.) (Cold)	D	-	D	D	D	D	D	-	C	B	A	-	D	-	-	-	-	D	C	D	A	A	D	A	-

CHEMICAL COMPATIBILITY

CHEMICALS	METALS					PLASTICS, ELASTOMERS & LEATHER																			
A: Excellent, B: Good, C: Fair to Poor, D: Not recommended - No Data	Aluminum	Carbon Steel	Cast/Ductile Iron	304 Stainless Steel	316 Stainless Steel	Acetal	Buna	CSM (Hypalon)	EPR, EPDM	Fluorocarbon	Fluoroelastomer (FKM)	Geolast (Buna & Polypropylene)	Hastelloy C	TPE	Leather	Nitrile (TS)	Nitrile (TPE)	Nylon	Polychloroprene	Polypropylene	PTFE	PVDF	Santoprene (EPDM & Polypropylene)	UHMWPE	Urethane
Hydrofluoric Acid (Hot)	D	D	D	D	B	D	D	-	D	-	C	-	-	-	-	-	-	D	D	D	A	A	-	D	-
Hydrofluoric Acid 100%	D	D	D	D	B	D	D	B	D	-	D	D	D	D	-	D	D	D	D	D	A	A	D	-	D
Hydrofluoric Acid 20%	D	D	D	D	D	D	D	B	D	-	A	D	D	D	-	D	D	C	D	A	A	A	D	A	D
Hydrofluoric Acid 50%	D	D	D	D	D	D	D	B	D	-	B	D	D	D	-	D	D	D	D	B	A	A	D	A	D
Hydrofluoric Acid 75%	D	D	D	D	D	D	D	B	D	-	D	D	D	D	-	D	D	D	D	C	A	A	D	-	D
Hydrofluosilicic Acid 100%	D	D	D	D	D	A	B	B	B	-	A	B	B	B	-	B	D	D	B	A	A	A	B	A	D
Hydrofluosilicic Acid 20%	D	B	D	C	D	B	B	B	A	-	A	B	B	-	-	-	-	D	B	A	A	A	-	-	-
Hydrogen Chloride Gas	D	-	A	A	-	-	-	-	A	-	A	-	A	-	-	D	B	-	B	A	A	A	B	-	-
Hydrogen Chloride Gas Dry	D	-	B	A	A	-	-	-	-	-	-	-	-	-	-	-	-	-	-	A	A	A	-	-	-
Hydrogen Chloride Gas Wet	D	-	B	D	B	-	-	-	-	-	-	-	-	-	-	-	-	-	-	A	A	A	-	-	-
Hydrogen Cyanide	A	B	B	B	A	-	-	-	-	-	-	-	-	D	-	-	-	B	-	A	A	A	A	-	-
Hydrogen Cyanide Gas	D	-	A	B	-	-	-	-	A	-	A	-	-	D	-	B	A	-	D	A	A	A	A	-	D
Hydrogen Fluoride	D	-	-	D	-	-	D	-	C	A	A	-	A	D	-	D	D	D	C	A	B	A	-	-	D
Hydrogen Fluoride Anhydrous	D	D	D	B	A	-	-	-	-	-	-	-	-	-	-	-	-	D	-	A	A	A	-	-	-
Hydrogen Gas	A	A	A	A	A	C	A	A	B	-	A	A	A	A	-	A	A	B	A	A	A	A	A	A	A
Hydrogen Peroxide - 10%	A	C	C	B	B	D	D	D	B	A	A	-	A	D	-	-	-	D	D	A	A	A	-	A	-
Hydrogen Peroxide - 100%	A	B	D	B	A	D	D	D	D	-	A	D	A	D	-	B	C	D	D	B	A	A	A	A	C
Hydrogen Peroxide - 3%	A	-	-	-	-	D	B	-	B	A	A	-	-	D	-	-	-	D	D	A	A	A	A	A	-
Hydrogen Peroxide - 30%	A	B	D	B	B	D	D	D	B	A	A	D	A	D	-	-	-	D	D	B	A	A	-	A	-
Hydrogen Peroxide - 5%	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Hydrogen Peroxide - 50%	A	-	-	B	A	D	D	D	B	-	A	D	A	-	-	-	-	D	D	B	A	A	-	-	-
Hydrogen Peroxide - 90%	A	-	D	A	-	D	D	-	C	A	A	-	-	D	-	-	-	D	D	A	A	A	-	A	-
Hydrogen Sulfide (dry)	B	D	D	C	A	-	D	B	B	-	D	-	A	A	-	-	-	C	A	A	A	A	-	-	-
Hydrogen Sulfide (wet)	D	D	D	C	A	C	D	D	B	D	D	D	A	A	-	D	D	D	C	A	A	A	A	A	D
Hydrogen Sulfide (Wet) (Cold)	D	-	D	-	A	-	C	-	-	-	A	-	A	-	-	-	-	C	B	A	A	A	-	-	-
Hydrogen Sulfide (Wet) (Hot)	D	-	D	-	A	-	D	-	-	-	B	-	A	-	-	-	-	D	C	A	A	A	-	-	-
Hydrogen Sulfide Dry	B	B	D	C	A	A	-	-	A	-	D	-	A	A	A	A	D	C	A	A	A	A	A	A	A
Hydrolube-Water/Ethylene Glycol	A	-	A	A	-	D	-	-	A	-	A	-	A	B	-	A	A	-	B	A	A	A	A	-	D
Hydroquinone	B	-	B	B	B	A	D	D	D	C	C	D	B	-	-	D	C	D	D	A	A	A	A	A	-
Hydroxyacetic Acid	D	-	B	B	-	C	-	-	A	-	D	A	-	-	-	D	D	-	D	-	A	-	A	-	D
Hydroxyacetic Acid — 10%	B	-	-	B	-	-	D	-	-	-	-	-	-	-	-	-	-	-	D	-	A	-	A	-	-
Hydroxyacetic Acid 70%	D	B	B	-	-	A	A	-	A	-	A	-	-	-	-	-	-	-	A	-	A	A	-	-	-
Hydrene	-	-	-	-	-	-	-	-	A	-	D	-	-	-	-	B	B	-	B	-	A	-	D	-	-
Hypochlorous Acid	D	D	D	D	D	D	D	-	B	A	A	D	A	-	-	D	D	D	D	A	A	A	A	A	D

CHEMICAL COMPATIBILITY

CHEMICALS	METALS					PLASTICS, ELASTOMERS & LEATHER																			
A: Excellent, B: Good, C: Fair to Poor, D: Not recommended - No Data	Aluminum	Carbon Steel	Cast/Ductile Iron	304 Stainless Steel	316 Stainless Steel	Acetal	Buna	CSM (Hypalon)	EPR, EPDM	Fluorocarbon	Fluoroelastomer (FKM)	Geolast (Buna & Polypropylene)	Hastelloy C	TPE	Leather	Nitrile (TS)	Nitrile (TPE)	Nylon	Polychloroprene	Polypropylene	PTFE	PVDF	Santoprene (EPDM & Polypropylene)	UHMWPE	Urethane
Hypoid Grease (Parapoid 10-C)	-	-	-	-	-	A	-	-	D	-	C	-	-	-	-	B	B	-	D	-	A	-	-	-	D
Ink (Printers)	D	D	D	C	C	B	A	-	A	-	A	-	A	A	A	A	A	C	A	-	A	A	C	A	A
Iodine	D	D	D	D	D	D	B	D	B	A	A	-	B	B	-	B	B	D	D	D	A	A	A	B	D
Iodine (in alcohol)	D	-	D	-	D	D	B	-	A	-	A	B	B	-	-	-	-	C	D	A	A	A	-	-	-
Iodine Pentafluoride	-	-	-	-	-	-	D	-	D	-	D	-	-	-	-	D	D	-	D	-	A	-	B	D	D
Iodoform	B	-	A	B	B	-	D	-	B	-	A	D	D	-	-	-	B	-	B	-	C	C	B	-	D
Iso Butane	-	-	-	-	-	-	-	-	D	-	A	-	-	-	-	A	-	-	D	-	A	-	-	-	A
Iso Butyl Acetate	A	-	A	A	-	-	-	-	C	-	D	-	A	-	-	D	D	-	D	-	A	-	-	-	-
Isoamyl Acetate	A	-	A	A	-	-	D	-	B	D	D	D	A	-	-	D	D	-	D	-	A	-	-	-	D
Isoamyl Alcohol	-	-	-	-	-	-	A	-	A	A	A	-	-	-	-	A	-	-	A	-	A	-	-	-	C
Isoamyl Butyrate	A	-	A	A	-	-	D	-	-	D	D	D	A	-	-	D	D	-	-	-	A	-	-	-	-
Isoamyl Chloride	D	-	-	-	-	-	D	-	D	A	A	-	-	-	-	D	D	-	D	-	A	-	-	-	-
Isobutyl	-	-	-	-	-	-	-	-	-	-	-	B	-	-	-	-	-	-	-	-	-	-	-	-	-
Isobutyl Acetate	A	-	A	A	-	-	D	-	C	D	-	D	A	-	-	-	-	-	D	-	A	-	-	-	-
Isobutyl Alcohol	B	-	-	A	-	-	C	-	-	A	-	-	A	-	-	-	-	-	A	-	A	A	A	A	-
Isobutyl Alcohol	B	-	C	A	A	A	B	-	A	A	A	-	A	-	-	B	B	B	B	A	A	A	A	A	D
Isobutyl Amine	-	-	-	-	-	-	D	-	-	D	D	-	-	-	-	D	D	-	-	-	A	-	-	-	-
Isobutyl Chloride	D	-	B	B	-	-	D	-	-	B	B	D	A	-	-	D	D	-	-	-	A	-	-	-	-
Iso-Butyl N-Butane	-	-	-	-	-	-	-	-	-	-	B	-	-	D	-	D	D	-	-	-	A	-	-	-	D
Isobutyric Acid	A	-	-	-	-	-	D	-	A	-	-	D	-	-	-	D	D	-	B	-	A	-	-	-	-
Isocyanates	-	-	A	A	-	A	-	-	-	-	B	-	A	B	-	B	C	-	-	A	A	-	-	-	B
Isododecane	B	-	B	B	-	-	B	-	D	A	A	B	B	-	-	A	A	-	B	-	A	-	-	-	B
Isooctane	A	A	A	A	A	-	A	-	D	A	A	A	A	A	-	A	C	B	B	A	A	A	D	A	A
Isooctane At 120° F	-	-	-	-	-	-	A	-	D	-	A	-	-	-	-	-	-	-	B	A	A	A	-	A	-
Isooctane At 150° F	-	-	-	-	-	-	A	-	D	-	A	-	-	-	-	-	-	-	B	D	A	A	-	A	-
Isopentane	-	-	-	-	-	-	A	-	D	A	A	-	-	-	-	A	A	-	D	-	A	-	-	-	B
Isophorone	A	-	B	A	A	-	D	-	C	D	D	D	A	-	-	D	D	-	D	-	A	-	B	-	D
Isopropanol (Isopropyl Alcohol)	A	-	A	A	-	A	-	-	A	-	A	-	A	A	-	A	A	-	B	A	A	A	B	-	B
Isopropyl	-	-	-	-	-	-	-	-	-	-	-	A	-	-	-	-	-	-	-	-	-	-	-	-	-
Isopropyl Acetate	D	B	B	C	B	D	D	D	B	D	D	D	B	C	-	D	D	B	D	B	A	D	B	C	D
Isopropyl Acetate At 120° F	-	-	-	-	-	-	D	-	B	-	D	-	-	-	-	-	-	A	D	C	A	-	-	-	-
Isopropyl Acetate At 150° F	-	-	-	-	-	-	D	-	B	-	D	-	-	-	-	-	-	A	D	-	A	-	-	-	-
Isopropyl Alcohol	B	-	C	A	-	-	C	-	-	A	-	-	A	-	-	-	-	-	B	A	A	A	B	A	-
Isopropyl Alcohol	A	A	A	A	A	A	B	-	B	A	A	-	A	A	A	A	A	D	B	A	A	A	B	A	D

CHEMICAL COMPATIBILITY

CHEMICALS	METALS					PLASTICS, ELASTOMERS & LEATHER																			
A: Excellent, B: Good, C: Fair to Poor, D: Not recommended - No Data	Aluminum	Carbon Steel	Cast/Ductile Iron	304 Stainless Steel	316 Stainless Steel	Acetal	Buna	CSM (Hypalon)	EPR, EPDM	Fluorocarbon	Fluoroelastomer (FKM)	Geolast (Buna & Polypropylene)	Hastelloy C	TPE	Leather	Nitrile (TS)	Nitrile (TPE)	Nylon	Polychloroprene	Polypropylene	PTFE	PVDF	Santoprene (EPDM & Polypropylene)	UHMWPE	Urethane
Isopropyl Amine	-	-	A	A	-	-	D	-	-	D	D	D	-	-	-	D	D	-	-	-	A	-	-	-	-
Isopropyl Benzene (Cumene)	-	-	-	-	-	-	-	-	D	-	A	-	-	-	-	D	D	-	D	-	A	-	-	D	D
Isopropyl Chloride	D	-	A	A	A	A	D	-	D	B	B	D	A	-	-	D	D	-	D	D	A	-	C	-	D
Isopropyl Ether	B	A	A	A	A	D	C	C	D	C	D	B	A	-	-	B	B	A	D	D	A	D	C	A	B
Isopropyl Ether 120° F - 150° F	-	-	-	-	-	-	B	-	D	-	D	-	-	-	-	-	-	-	C	D	A	-	-	A	-
Isopropyl Ether To 70° F	-	-	-	-	-	-	B	-	D	-	D	-	-	-	-	-	-	A	C	A	A	-	-	A	-
Isotane	D	-	-	-	-	-	A	-	-	-	A	A	-	-	-	-	-	D	D	D	-	A	-	-	-
Jet Fuel (JP1 to JP6)	A	A	A	A	A	A	A	D	D	A	A	A	A	-	-	-	-	C	D	D	A	B	D	-	-
Jet Fuel 120° F - 150° F	-	-	-	-	-	A	-	-	-	-	-	-	-	-	-	-	-	A	-	D	A	A	-	-	-
Jet Fuel To 70° F	-	-	-	-	-	A	-	-	-	-	-	-	-	-	-	-	-	A	-	A	A	A	D	-	-
Jp-1	A	A	A	A	A	A	A	-	D	-	A	-	A	-	-	A	C	-	D	D	A	A	D	A	C
Jp-2	A	A	A	A	A	A	A	-	D	-	A	-	A	-	-	A	C	-	D	D	A	A	C	A	C
Jp-3	A	A	A	A	A	A	A	-	D	-	A	-	A	-	-	A	C	-	D	A	A	A	C	A	C
Jp-4	A	A	A	A	A	A	A	-	D	-	A	-	A	A	-	A	A	-	D	A	A	A	D	A	C
Jp-5	A	A	A	A	A	A	A	-	D	-	A	-	A	-	-	A	C	-	D	A	A	A	C	A	B
Jp-6	A	A	A	A	A	A	A	-	D	-	A	-	A	-	-	A	C	-	D	D	A	A	C	A	C
Jp-X	A	A	A	A	A	A	A	-	D	-	D	-	A	-	-	A	A	-	B	D	A	A	C	A	-
Kel F Liquids	-	-	-	-	-	-	-	-	A	-	B	-	-	-	-	A	-	-	-	-	A	-	-	-	-
Kerosene	A	A	A	A	A	A	A	D	D	A	A	A	B	C	A	A	A	A	D	D	A	A	D	C	B
Kerosene 120°F - 150°F	-	-	-	-	-	A	A	-	D	-	A	-	-	-	A	-	-	A	B	D	A	A	-	-	-
Kerosene To 70° F	-	-	-	-	-	A	A	-	D	-	A	-	-	B	A	-	-	A	B	A	A	A	D	-	-
Ketchup	-	-	-	A	A	A	A	-	A	-	A	-	-	-	A	-	-	A	A	-	A	-	-	-	-
Ketones	B	A	A	A	A	D	D	-	A	-	D	D	A	D	A	D	D	A	D	D	A	D	D	C	D
Keystone #87HX-Grease	-	-	-	-	-	-	-	-	D	-	A	-	-	-	-	A	-	-	D	-	A	-	-	A	A
Lacquer Solvents	A	B	B	A	A	B	D	-	D	D	D	-	A	D	B	D	A	B	D	C	A	D	C	A	D
Lacquer Thinners	A	C	C	A	A	D	D	D	D	-	D	D	A	D	-	-	-	A	D	D	A	-	-	-	-
Lacquers	A	C	C	A	A	D	D	D	D	D	D	D	A	D	-	D	D	A	D	D	A	D	C	A	D
Lactam-Amino Acids	-	-	-	-	-	-	-	-	B	-	D	-	-	-	-	D	-	-	B	-	A	-	-	-	-
Lactic Acid	D	D	D	B	B	C	B	A	A	A	A	B	B	D	A	-	-	D	C	B	A	C	A	A	-
Lactic Acid - 5% Solution	C	-	D	A	-	A	-	-	A	-	A	-	B	D	-	A	B	-	A	A	A	A	A	A	B
Lactol	A	-	A	A	-	A	C	-	-	A	A	-	A	-	-	A	-	-	D	D	A	-	-	-	-
Lard	A	A	A	B	A	B	A	B	D	A	A	A	A	B	A	-	-	A	D	B	A	A	B	A	-
Lard Oil (Cold)	A	A	A	A	A	A	A	-	D	-	A	-	-	-	A	-	-	-	B	-	A	-	-	-	-
Lard Oil (Hot)	A	A	A	A	A	A	A	-	D	-	A	-	A	B	A	A	-	-	B	B	A	A	B	A	C

CHEMICAL COMPATIBILITY

CHEMICALS	METALS					PLASTICS, ELASTOMERS & LEATHER																			
A: Excellent, B: Good, C: Fair to Poor, D: Not recommended - No Data	Aluminum	Carbon Steel	Cast/Ductile Iron	304 Stainless Steel	316 Stainless Steel	Acetal	Buna	CSM (Hypalon)	EPR, EPDM	Fluorocarbon	Fluoroelastomer (FKM)	Geolast (Buna & Polypropylene)	Hastelloy C	TPE	Leather	Nitrile (TS)	Nitrile (TPE)	Nylon	Polychloroprene	Polypropylene	PTFE	PVDF	Santoprene (EPDM & Polypropylene)	UHMWPE	Urethane
Latex	A	-	-	A	A	C	A	-	A	-	A	A	A	-	-	A	A	A	B	A	A	A	A	-	D
Lauryl Alcohol (N-Dodecanol)	A	A	A	A	A	-	A	-	-	B	B	-	A	-	-	A	-	-	-	-	A	-	A	A	D
Lavender Oil	-	-	-	-	-	-	B	-	D	B	B	B	-	-	-	B	B	-	D	-	A	-	B	-	-
Lead Acetate	D	D	D	B	B	B	B	D	A	D	D	B	B	-	A	B	B	B	B	A	A	A	A	A	D
Lead Chloride	D	-	-	B	-	-	-	-	A	-	A	-	B	-	-	A	-	-	B	A	A	A	-	-	-
Lead Molten	B	-	-	B	B	D	-	-	-	-	-	-	-	-	-	-	-	D	-	D	D	D	-	D	-
Lead Nitrate	D	-	B	B	B	-	B	-	A	A	A	B	B	-	-	A	A	-	A	A	A	A	-	A	-
Lead Sulfamate	C	-	C	C	C	A	B	A	B	-	A	B	-	-	-	B	A	B	A	A	B	A	A	-	-
Lehigh X1169	-	-	-	-	-	-	-	-	D	-	A	-	-	-	-	A	-	-	B	-	A	-	-	-	A
Lehigh X1170	-	-	-	-	-	-	-	-	D	-	A	-	-	-	-	A	-	-	B	-	A	-	-	-	A
Lemon Oil	C	-	A	A	A	D	C	-	D	-	A	-	A	-	-	A	-	-	D	D	A	A	C	-	-
Light Grease	-	-	-	-	-	A	-	-	D	-	A	-	-	-	-	A	-	-	D	-	A	-	-	-	A
Lignin Liquor	-	-	-	A	-	-	A	-	D	A	A	-	-	-	-	A	-	-	A	-	A	-	-	-	D
Ligroin	D	-	A	A	A	B	A	C	D	A	A	A	-	-	-	A	B	D	B	D	A	A	B	-	C
Lime	D	A	A	A	A	D	A	-	D	-	A	-	-	B	-	A	A	B	B	B	A	A	A	-	B
Lime Bleach	D	-	-	A	A	-	A	-	A	A	A	-	-	-	-	A	B	-	C	B	A	-	A	-	-
Lime Slurries	B	-	-	B	-	-	B	-	C	B	D	-	-	-	-	A	A	-	A	-	A	-	A	-	B
Lime Sulfur	D	-	C	A	A	-	D	-	A	A	A	-	-	-	-	A	A	B	A	A	A	B	B	A	A
Lime, Soda (Slaked Lime & Soda Ash)	-	-	-	-	-	-	B	-	A	B	-	B	-	-	-	-	-	-	B	-	A	-	A	-	-
Limonene	-	-	-	-	-	-	C	-	D	A	A	-	-	-	-	D	D	-	D	-	A	-	-	-	-
Lindol, Hydraulic Fluid	-	-	-	-	-	-	D	-	A	B	B	-	-	-	-	D	D	-	D	-	A	-	A	-	D
Lineoleic Acid	A	D	D	B	A	-	B	-	D	-	B	-	-	-	-	-	-	-	D	B	A	A	-	-	-
Linoleic Acid	A	-	D	B	A	B	B	D	D	B	B	B	A	-	-	B	B	-	D	B	A	A	B	A	-
Liquid Oxygen	-	-	-	-	-	-	-	-	D	-	D	-	-	-	-	D	D	-	D	-	A	-	-	-	D
Liquid Petroleum Gas (LPG)	-	-	-	-	-	A	A	-	D	-	A	-	A	B	-	A	D	B	C	D	A	A	C	-	C
Liquimoly	-	-	-	-	-	-	-	-	D	-	A	-	-	-	-	A	A	-	B	-	A	-	-	-	B
Lithium Bromide	-	-	A	-	-	-	A	-	A	A	A	-	-	-	-	A	A	-	D	-	A	A	-	-	D
Lithium Chloride	D	A	B	A	A	A	A	-	A	-	A	A	A	-	-	A	A	-	A	A	A	A	-	D	D
Lithium Hydroxide	D	-	B	B	B	D	C	-	A	-	C	D	B	-	-	D	D	-	D	A	A	-	-	D	D
Lubricants	A	A	A	A	A	A	A	A	D	-	A	-	A	A	-	-	-	A	D	B	A	A	-	-	-
Lubricants (Petroleum)	C	-	A	A	A	A	A	-	D	A	B	A	A	A	-	A	B	A	B	D	A	A	D	B	B
Lubricating Oil	A	A	A	A	A	A	A	-	D	-	A	-	-	A	A	-	-	A	B	A	A	A	-	A	-
Lubricating Oil Di-Ester	A	A	A	A	A	-	B	-	D	-	A	-	-	D	-	B	A	-	D	-	A	-	D	A	D
Lubricating Oil SAE 10, 20, 30, 40, 50	A	-	A	A	-	A	-	-	D	-	A	-	A	A	-	A	A	-	D	C	A	A	D	A	A

CHEMICAL COMPATIBILITY

CHEMICALS	METALS					PLASTICS, ELASTOMERS & LEATHER																			
A: Excellent, B: Good, C: Fair to Poor, D: Not recommended - No Data	Aluminum	Carbon Steel	Cast/Ductile Iron	304 Stainless Steel	316 Stainless Steel	Acetal	Buna	CSM (Hypalon)	EPR, EPDM	Fluorocarbon	Fluoroelastomer (FKM)	Geolast (Buna & Polypropylene)	Hastelloy C	TPE	Leather	Nitrile (TS)	Nitrile (TPE)	Nylon	Polychloroprene	Polypropylene	PTFE	PVDF	Santoprene (EPDM & Polypropylene)	UHMWPE	Urethane
Lye (Calcium Hydroxide)	C	A	A	B	B	D	A	A	A	-	B	-	A	B	-	-	-	A	A	A	A	A	-	-	-
Lye (Potassium Hydroxide)	D	B	B	B	A	D	C	A	A	B	B	D	B	D	-	-	-	C	B	A	A	A	A	A	-
Lye (Sodium Hydroxide)	D	D	D	B	B	D	B	A	B	-	B	-	C	C	-	-	-	C	B	A	A	D	A	A	-
Lye 10%	D	-	C	B	A	A	-	-	-	-	-	-	-	-	-	-	-	A	-	-	A	-	-	-	-
Lye 50%	D	-	C	B	B	C	-	-	-	-	-	-	-	-	-	-	-	D	-	-	A	A	-	A	-
Lye Concentrated	D	-	C	B	D	D	B	-	A	-	B	-	-	-	-	-	-	D	B	A	A	-	-	-	-
Lye Solutions	-	-	-	A	A	D	C	-	A	-	B	-	-	C	-	D	B	A	B	A	A	A	A	A	B
Lysol	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	B	B	-	B	-	A	-	-	-	-
M Cresol	-	-	-	-	-	D	D	-	D	-	A	-	-	-	-	-	-	D	C	D	A	B	-	A	-
Maganese Chloride	-	-	D	-	-	-	-	-	C	-	A	-	B	-	-	A	A	-	B	A	A	-	-	A	B
Magnesium Bisulfate	D	-	-	A	B	-	B	-	-	-	-	B	-	-	-	-	-	A	B	A	A	-	-	-	-
Magnesium Bisulfite	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	B	C	-	B	-	A	-	-	-	-
Magnesium Carbonate	D	B	B	B	B	A	A	A	C	A	A	A	B	-	-	A	A	A	A	A	A	A	A	A	B
Magnesium Chloride	D	D	D	D	D	B	A	A	A	A	A	A	A	C	A	A	A	A	A	A	A	A	A	A	-
Magnesium Hydroxide (Milk of Magnesia)	D	A	B	B	A	A	B	A	A	A	A	B	A	C	A	A	A	B	B	A	A	A	A	A	A
Magnesium Nitrate	D	D	D	B	B	A	A	A	A	A	A	A	B	-	-	A	A	A	A	A	A	A	A	A	B
Magnesium Oxide	B	A	A	A	A	A	A	-	A	B	C	A	A	-	-	A	A	-	A	-	A	-	A	-	-
Magnesium Salts	-	-	-	-	-	-	-	-	A	-	A	-	-	-	-	A	A	-	A	-	A	-	A	-	A
Magnesium Sulfate	D	B	C	A	B	B	A	A	A	A	A	-	B	B	A	A	B	A	A	B	A	A	A	B	D
Magnesium Sulfite	-	-	-	-	-	-	-	-	A	-	A	-	-	-	-	A	B	-	A	-	A	-	A	-	-
Malathion	-	-	-	-	-	-	-	-	D	-	A	-	-	D	-	B	-	-	-	-	A	-	-	-	D
Maleic Acid	B	A	D	B	B	A	D	D	D	A	A	D	B	-	A	C	A	D	D	B	A	A	A	A	D
Maleic Anhydride	A	-	B	A	A	D	D	D	D	A	A	D	A	-	-	D	D	-	D	D	A	A	A	-	-
Malic Acid	B	-	D	A	A	A	B	D	D	A	A	B	B	-	A	A	B	D	D	B	A	A	A	-	-
Malt Beverages	A	D	D	A	A	A	A	-	A	-	A	-	-	-	-	A	B	-	A	-	A	-	A	A	B
Manganese Chloride	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	A	-	A	A	-	-	A	-
Manganese Sulfate	B	A	B	B	B	A	A	-	A	-	A	A	A	-	-	-	-	A	A	B	A	A	-	-	-
Maple Sugar Liquors (Sucrose)	-	-	-	A	-	-	A	-	A	A	A	A	-	-	-	A	A	-	A	-	A	-	A	-	D
Mash	A	-	-	A	A	A	A	-	A	-	A	A	-	-	-	A	A	A	A	-	-	-	A	-	A
Mayonnaise	D	D	D	C	A	A	C	-	D	-	A	A	A	-	A	A	A	A	D	A	A	A	A	A	D
MCS 312	-	-	-	-	-	-	-	-	D	-	A	-	-	-	-	D	D	-	D	-	A	-	-	-	-
MCS 352	-	-	-	-	-	-	-	-	A	-	D	-	-	-	-	D	D	-	D	-	A	-	-	-	D
MCS 463	-	-	-	-	-	-	-	-	A	-	D	-	-	-	-	D	D	-	D	-	A	-	-	-	D
Melamine	-	D	D	-	D	A	C	-	A	-	A	D	-	-	-	-	-	A	D	A	A	-	-	-	-

CHEMICAL COMPATIBILITY

CHEMICALS	METALS					PLASTICS, ELASTOMERS & LEATHER																			
A: Excellent, B: Good, C: Fair to Poor, D: Not recommended - No Data	Aluminum	Carbon Steel	Cast/Ductile Iron	304 Stainless Steel	316 Stainless Steel	Acetal	Buna	CSM (Hypalon)	EPR, EPDM	Fluorocarbon	Fluoroelastomer (FKM)	Geolast (Buna & Polypropylene)	Hastelloy C	TPE	Leather	Nitrile (TS)	Nitrile (TPE)	Nylon	Polychloroprene	Polypropylene	PTFE	PVDF	Santoprene (EPDM & Polypropylene)	UHMWPE	Urethane
Melamine Resins	-	-	-	D	-	A	-	-	A	-	A	-	A	-	-	C	C	-	D	-	A	-	B	-	D
Mercaptan	-	-	-	-	-	-	-	-	A	-	D	-	-	-	-	D	D	-	D	-	A	-	-	-	D
Mercuric Chloride	D	D	D	D	D	B	A	-	A	A	A	A	B	B	-	A	A	D	B	A	A	A	A	A	A
Mercuric Chloride (Dilute Solution)	D	D	D	D	D	B	A	A	A	-	A	-	C	B	-	-	-	D	A	B	A	A	-	-	-
Mercuric Cyanide	D	D	D	C	C	-	B	-	A	A	A	A	B	D	-	A	A	A	B	B	B	A	A	A	-
Mercurous Nitrate	D	-	B	B	B	-	B	-	A	A	A	B	B	-	-	B	B	-	B	A	A	A	-	A	-
Mercury	D	A	B	A	A	C	A	A	A	A	A	A	A	B	A	A	A	A	A	B	A	A	A	A	A
Mesityl Oxide	A	-	A	A	A	-	D	-	B	D	D	D	A	-	-	D	D	-	D	-	A	-	C	-	D
Methane	A	-	D	A	A	A	A	B	D	A	B	A	A	B	-	A	B	A	B	B	A	A	D	-	C
Methanol	B	A	A	A	A	A	A	A	A	-	D	-	A	B	-	A	A	B	A	A	A	A	A	A	D
Methyl	-	-	-	-	-	-	-	-	-	-	-	A	-	-	-	-	-	-	-	-	-	-	-	-	-
Methyl Acetate	B	B	B	A	B	B	D	D	C	D	D	D	A	C	-	D	D	A	D	D	A	B	B	-	D
Methyl Acetoacetate	-	-	A	A	-	-	D	-	B	D	D	-	A	-	-	D	D	-	D	-	A	-	-	-	D
Methyl Acetone	A	A	A	A	A	D	D	-	A	-	D	D	A	-	-	C	D	A	D	D	A	D	B	-	-
Methyl Acrylate	-	A	A	A	-	B	D	D	C	D	D	D	-	-	-	D	D	-	D	D	A	B	D	-	D
Methyl Acrylic Acid	-	-	-	-	-	A	-	-	C	D	C	-	-	-	-	D	-	-	C	-	A	-	A	-	D
Methyl Alcohol (Methanol)	B	-	A	A	-	-	A	-	D	D	-	-	A	-	-	-	-	-	A	A	A	A	A	A	-
Methyl Alcohol	B	A	A	B	A	A	A	-	A	B	D	-	A	A	A	A	A	D	C	A	A	A	A	A	D
Methyl Alcohol 10%	A	A	A	A	A	A	A	A	A	-	C	-	A	B	-	-	-	B	A	A	A	A	-	-	-
Methyl Amine	B	A	B	A	A	A	B	-	A	A	C	B	B	-	-	B	B	-	C	D	A	C	-	-	-
Methyl Amyl Acetate	A	-	A	A	-	-	A	-	-	D	-	A	A	-	-	-	-	-	-	-	A	-	-	-	-
Methyl Amyl Alcohol	A	-	A	A	-	-	A	-	-	D	D	-	A	-	-	A	B	-	D	-	A	-	-	-	-
Methyl Aniline	-	-	-	-	-	-	A	-	D	-	B	-	-	-	-	D	D	-	B	-	A	-	-	-	D
Methyl Benzoate	-	-	-	-	-	-	-	-	D	-	A	-	-	-	-	D	D	-	A	-	A	-	-	-	D
Methyl Bromide	D	A	A	A	A	D	C	D	D	A	A	B	B	D	-	B	B	D	D	D	A	A	D	C	D
Methyl Butyl Ketone	A	-	-	A	A	D	D	D	B	D	D	D	-	-	-	D	D	D	D	D	A	D	C	-	D
Methyl Butyrate	A	-	A	A	-	-	D	-	D	-	-	D	A	-	-	D	D	-	D	-	A	-	-	-	-
Methyl Carbonate	-	-	-	-	-	-	-	-	D	-	A	-	-	-	-	D	D	-	D	-	A	-	-	-	D
Methyl Cellosolve	B	C	C	B	B	D	D	D	B	D	D	D	-	-	-	C	C	C	D	B	A	A	B	-	D
Methyl Cellulose	-	-	-	-	-	-	-	-	B	-	D	-	-	-	-	B	B	-	B	-	A	-	-	-	B
Methyl Chloride	D	D	D	A	A	B	D	D	D	B	B	D	B	D	-	D	D	C	D	D	A	A	D	C	D
Methyl Chloride (Dry)	D	D	D	A	A	B	D	-	C	-	B	-	-	D	-	-	-	D	D	D	A	A	D	-	-
Methyl Chloride (Wet)	D	D	D	A	A	B	D	-	C	-	B	-	-	-	-	-	-	D	D	D	A	A	-	-	-
Methyl Chloroformate	-	-	-	-	-	-	-	-	D	-	A	-	-	-	-	D	D	-	D	-	A	-	-	-	D

CHEMICAL COMPATIBILITY

CHEMICALS	METALS					PLASTICS, ELASTOMERS & LEATHER																			
A: Excellent, B: Good, C: Fair to Poor, D: Not recommended - No Data	Aluminum	Carbon Steel	Cast/Ductile Iron	304 Stainless Steel	316 Stainless Steel	Acetal	Buna	CSM (Hypalon)	EPR, EPDM	Fluorocarbon	Fluoroelastomer (FKM)	Geolast (Buna & Polypropylene)	Hastelloy C	TPE	Leather	Nitrile (TS)	Nitrile (TPE)	Nylon	Polychloroprene	Polypropylene	PTFE	PVDF	Santoprene (EPDM & Polypropylene)	UHMWPE	Urethane
Methyl Cyanide	-	-	-	-	-	-	-	-	A	-	D	-	-	-	-	C	C	-	A	-	A	-	-	-	-
Methyl Cyclopentane	-	-	-	A	-	A	B	-	D	A	A	-	-	-	-	D	D	-	D	-	A	-	C	A	D
Methyl D-Bromide	-	-	-	-	-	-	-	-	-	-	A	-	-	-	-	D	D	-	D	-	A	-	-	-	D
Methyl Dichloride	D	-	-	-	-	D	D	-	D	A	A	D	-	-	-	D	D	C	D	D	A	D	D	-	-
Methyl Ether	-	-	-	-	-	-	-	-	A	-	A	-	-	-	-	A	-	-	C	-	A	-	-	-	-
Methyl Ethyl Ketone (MEK)	B	A	A	A	A	C	D	D	A	D	D	D	A	B	-	D	B	C	D	D	A	D	D	D	D
Methyl Ethyl Ketone Peroxide	-	-	-	-	-	-	D	D	D	-	D	-	-	-	-	-	-	-	D	-	-	-	-	-	-
Methyl Formate	A	-	B	B	B	A	D	-	C	D	D	D	-	-	-	D	D	-	B	-	A	-	B	-	D
Methyl Hexane	-	-	-	-	-	-	A	-	D	A	A	-	-	-	-	A	-	-	B	-	A	-	-	-	-
Methyl Iodide	D	-	A	A	-	-	D	-	A	-	-	D	A	-	-	D	D	-	D	-	A	-	-	-	-
Methyl Isobutyl Ketone (MIBK)	B	C	C	B	B	A	D	D	C	D	D	D	A	B	-	-	-	D	D	D	A	D	C	-	-
Methyl Isopropyl Ketone	A	C	C	A	A	A	D	D	C	D	D	D	-	-	-	D	D	D	D	C	A	A	C	C	D
Methyl Methacrylate	B	C	C	B	B	D	D	D	D	C	D	D	-	-	-	D	D	-	D	D	A	B	B	-	D
Methyl Oleate	-	-	-	-	-	A	D	-	C	D	B	-	-	-	-	D	D	-	D	-	A	-	C	-	-
Methyl Propyl Salicylate	A	-	A	-	-	A	-	-	B	-	B	-	-	-	-	D	D	-	D	B	A	B	B	-	-
Methyl Salicylate (Betula Oil)	A	-	A	-	-	-	D	-	C	B	B	D	-	-	-	-	-	-	D	B	A	B	B	-	-
Methylacrylic Acid	-	-	-	-	-	-	-	-	-	B	B	-	-	-	-	-	-	-	B	-	A	-	A	-	-
Methylamine	B	A	B	A	A	D	B	-	A	A	D	-	B	-	-	B	-	-	A	A	A	C	A	-	-
Methylene Bromide	D	-	A	A	-	-	D	-	D	B	C	D	A	-	-	D	D	-	D	-	A	A	-	-	-
Methylene Chloride	D	B	B	B	B	D	D	-	D	B	B	D	B	D	-	D	C	D	D	D	A	D	D	D	D
Methylene Dichloride	-	-	-	-	-	-	-	-	D	-	B	-	-	-	-	D	D	-	D	-	A	-	-	-	D
Milk	A	D	D	A	A	A	B	A	A	A	A	A	A	B	A	A	A	A	A	B	A	A	A	A	D
Mine Water	B	-	A	B	-	A	A	-	A	-	A	-	A	-	-	A	A	-	C	A	A	A	B	A	D
Mineral Oil	A	A	A	A	A	A	A	B	D	A	A	A	A	A	A	A	A	A	B	C	A	A	D	C	A
Mineral Spirits	A	B	B	A	A	A	A	C	D	-	A	A	B	-	-	-	-	A	C	B	A	-	-	-	-
Mixed Acids	D	D	D	D	D	-	D	-	B	A	-	-	B	-	-	-	-	D	D	D	A	A	-	-	-
MLO-7277 Hydr.	-	-	-	-	-	-	-	-	D	-	A	-	-	-	-	C	-	-	D	-	A	-	-	-	D
MLO-75557	-	-	-	-	-	-	-	-	D	-	A	-	-	-	-	C	-	-	D	-	A	-	-	-	D
MLO-8200 Hydr.	-	-	-	-	-	-	-	-	D	-	A	-	-	-	-	B	-	-	A	-	A	-	-	-	A
MLO-8515	-	-	-	-	-	-	-	-	D	-	A	-	-	-	-	B	-	-	B	-	A	-	-	-	D
Molasses	A	B	B	A	A	B	A	-	A	A	A	A	A	B	A	A	A	A	A	B	A	B	A	A	B
Monobromorobenzene	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Monochloroacetic acid	D	D	D	D	B	D	D	A	C	-	C	-	B	D	-	D	D	D	A	A	D	B	D	D	D
Monochlorobenzene	D	-	A	B	B	A	D	-	D	A	A	-	-	C	-	D	D	C	D	D	A	B	D	B	D

CHEMICAL COMPATIBILITY

CHEMICALS	METALS					PLASTICS, ELASTOMERS & LEATHER																			
A: Excellent, B: Good, C: Fair to Poor, D: Not recommended - No Data	Aluminum	Carbon Steel	Cast/Ductile Iron	304 Stainless Steel	316 Stainless Steel	Acetal	Buna	CSM (Hypalon)	EPR, EPDM	Fluorocarbon	Fluoroelastomer (FKM)	Geolast (Buna & Polypropylene)	Hastelloy C	TPE	Leather	Nitrile (TS)	Nitrile (TPE)	Nylon	Polychloroprene	Polypropylene	PTFE	PVDF	Santoprene (EPDM & Polypropylene)	UHMWPE	Urethane
Monochlorodifluoro Methane	D	-	D	A	A	-	-	-	A	-	D	-	-	D	-	D	D	D	A	A	A	B	D	-	D
Monoethanolamine	B	B	B	A	B	D	D	D	B	C	D	B	-	D	-	B	D	A	D	D	A	D	A	-	D
Monomethyl Aniline	-	-	-	-	-	-	D	-	D	-	C	-	-	D	-	D	D	-	D	C	A	-	B	A	D
Monomethyl Hydrazine	-	-	-	-	-	-	-	-	A	-	-	-	-	D	-	B	B	-	B	-	A	-	-	A	-
Monomethylether	-	-	-	-	-	-	A	-	A	-	A	-	-	D	-	A	A	-	B	-	A	-	C	-	-
Mononitrololuene & Dicitrotoluene (40/60 Mixture)	-	-	-	-	-	-	-	-	D	-	C	-	-	D	-	D	A	-	D	-	A	-	-	-	D
Monovinyl Acetylene	-	-	-	-	-	-	A	-	-	-	A	-	-	-	-	-	-	-	B	-	A	-	-	-	-
Morpholine	A	-	A	-	A	-	D	-	D	-	-	D	A	-	-	-	-	A	D	B	A	D	-	-	-
Motor oil	A	A	A	A	A	B	A	-	D	-	-	-	-	B	-	-	-	A	B	C	A	B	-	-	-
Motor oil (Petroleum Base)	-	-	-	-	-	-	-	-	-	-	-	A	-	-	-	-	-	-	-	-	-	-	-	-	-
Muriatic Acid	D	D	D	D	D	D	D	-	C	-	B	-	-	D	-	-	-	D	D	B	A	A	A	A	-
Muriatic Acid (10%-20% HCL)	D	-	D	D	-	D	-	-	A	-	A	-	A	D	-	D	B	-	D	A	A	A	A	A	B
Mustard	B	D	D	D	D	C	C	-	A	D	D	B	A	B	-	B	B	A	C	A	A	A	A	A	B
N,N-Dimethyl Formamide (DMF)	A	-	-	A	-	B	C	-	-	D	-	-	A	-	-	-	-	A	D	A	A	A	A	-	-
N,N-Dimethylaniline	B	-	B	-	-	-	D	-	C	D	-	-	-	-	-	-	-	A	D	D	A	A	B	-	-
n-Amyl Amine	-	-	-	-	-	-	C	-	D	D	-	-	-	-	-	-	-	-	D	-	A	-	-	-	-
Napalm	-	-	-	-	-	-	-	-	D	-	A	-	-	D	-	B	B	-	-	-	-	-	-	-	B
Naphtha	A	B	B	A	A	A	B	D	D	A	A	A	B	B	A	A	A	A	D	D	B	A	D	C	C
Naphtha Coal Tar (Benzol)	A	-	B	A	-	-	D	-	D	A	-	-	A	-	-	-	-	-	D	-	A	-	-	-	-
Naphthalene	B	A	B	A	B	A	D	D	D	A	A	D	A	C	-	D	D	A	D	B	A	A	D	B	B
Naphthoic Acid	B	-	B	A	-	-	B	-	D	A	-	B	B	-	-	-	-	-	-	-	A	-	-	-	-
Naptha-Coal Tar (Benzol)	A	-	A	A	-	A	-	-	D	-	A	-	A	D	-	D	D	-	D	C	A	A	C	A	B
Napthenic Acid	B	-	B	A	A	A	B	-	D	-	A	-	B	D	-	B	B	-	D	-	A	-	B	-	-
Natural Gas	A	A	A	A	A	B	A	-	D	-	A	A	-	B	-	A	A	-	A	A	A	-	C	-	C
n-Butyl Acetate	A	-	A	A	-	-	D	-	D	D	-	D	A	-	-	-	-	-	D	-	A	-	A	-	-
Neatsfoot Oil	A	-	A	A	A	B	A	-	C	A	A	B	-	D	-	A	A	-	D	-	A	-	B	-	A
Neohexane	-	-	-	-	-	-	A	-	-	A	A	-	-	D	-	A	A	-	-	-	A	-	-	-	-
Neosol	B	-	B	A	-	-	A	-	B	C	C	-	A	D	-	A	A	-	A	-	A	-	-	-	-
Neville Acid	-	-	-	-	-	-	C	-	C	B	A	-	-	D	-	D	D	-	D	-	A	-	A	-	-
N-Hexaldehyde	A	-	A	A	A	-	D	-	A	-	D	-	-	D	-	D	D	-	A	-	A	-	C	A	B
n-Hexane	A	-	A	A	-	C	A	-	D	A	-	-	A	-	-	-	-	A	B	C	A	A	A	B	-
n-Hexane 1 (Hexylene)	-	-	-	-	-	-	A	-	D	A	-	-	-	-	-	-	-	-	B	-	A	-	C	-	-
N-Hexene-1	-	-	-	-	-	-	A	-	-	-	A	-	-	-	-	-	-	-	B	-	A	-	-	-	-
Nickel Acetate	D	-	-	A	-	-	B	-	A	D	D	B	-	-	-	B	B	-	B	A	A	A	A	-	D

CHEMICAL COMPATIBILITY

CHEMICALS	METALS					PLASTICS, ELASTOMERS & LEATHER																			
A: Excellent, B: Good, C: Fair to Poor, D: Not recommended - No Data	Aluminum	Carbon Steel	Cast/Ductile Iron	304 Stainless Steel	316 Stainless Steel	Acetal	Buna	CSM (Hypalon)	EPR, EPDM	Fluorocarbon	Fluoroelastomer (FKM)	Geolast (Buna & Polypropylene)	Hastelloy C	TPE	Leather	Nitrile (TS)	Nitrile (TPE)	Nylon	Polychloroprene	Polypropylene	PTFE	PVDF	Santoprene (EPDM & Polypropylene)	UHMWPE	Urethane
Nickel Ammonium Sulfate	-	-	-	-	-	-	-	-	-	-	A	-	-	-	-	-	C	-	A	-	A	-	A	-	-
Nickel Chloride	D	D	D	D	C	B	A	A	A	A	A	A	B	D	A	A	A	D	B	A	A	A	A	A	A
Nickel Nitrate	D	C	C	B	B	D	A	D	A	A	A	A	B	-	-	A	A	A	A	A	A	A	A	A	A
Nickel Salts	-	-	-	-	-	-	-	-	A	-	A	-	-	-	-	A	A	-	B	-	A	-	A	-	A
Nickel Sulfate	D	D	D	B	B	B	A	A	A	A	A	A	B	D	A	A	A	B	A	A	A	A	A	A	A
Nicotine	-	-	-	-	-	-	-	-	-	-	A	-	-	B	-	-	A	-	C	-	A	-	-	-	A
Nicotinic Acid	-	-	-	-	-	-	-	-	A	-	-	-	-	-	-	A	A	-	A	-	A	-	-	-	-
Niter Cake	-	-	-	-	-	-	A	-	A	-	A	-	-	-	-	A	A	-	A	-	A	-	A	A	A
Nitrana (Ammonia Fertilizer)	-	-	-	A	-	-	B	-	-	C	C	-	-	-	-	B	B	-	B	-	A	-	-	-	-
Nitrating Acid (<15% HNO3)	D	C	C	C	D	-	-	-	-	-	-	-	A	-	-	-	-	-	A	C	A	-	-	-	-
Nitrating Acid (>15% H2SO4)	D	C	C	C	C	D	D	-	A	-	-	-	A	-	-	-	-	-	A	C	A	-	-	-	-
Nitrating Acid (S1% Acid)	D	-	-	C	A	-	-	-	-	-	-	-	A	-	-	-	-	-	A	C	A	-	-	-	-
Nitrating Acid (S15% H2SO4)	D	A	A	C	C	-	-	-	-	-	-	-	A	-	-	-	-	-	A	C	A	-	-	-	-
Nitric Acid - 10%	D	D	D	A	A	D	D	-	B	A	A	D	A	D	-	-	-	D	B	D	A	A	D	D	-
Nitric Acid - 20%	D	D	D	A	A	D	D	D	B	-	A	D	B	D	-	D	B	D	D	B	A	A	B	A	C
Nitric Acid - 25%	D	D	D	A	A	D	D	-	B	A	A	-	A	D	-	-	-	D	C	D	A	A	D	D	-
Nitric Acid - 30%	-	-	-	-	-	-	-	-	-	-	-	D	-	-	-	-	-	-	-	-	-	-	-	-	-
Nitric Acid - 35%	D	D	D	A	A	D	D	-	C	A	A	-	A	D	-	-	-	D	D	D	A	A	D	D	-
Nitric Acid - 50%	D	D	D	B	A	D	D	D	D	A	A	D	D	D	-	D	C	D	D	D	A	A	D	D	C
Nitric Acid - 65%	D	-	D	A	-	D	-	-	D	-	A	-	D	D	-	D	D	-	D	D	A	A	C	D	C
Nitric Acid - 70%	A	-	D	A	A	D	D	-	D	A	B	D	D	D	-	-	-	D	D	D	A	A	D	D	-
Nitric Acid (5-10% Solution)	D	D	D	A	A	D	D	B	B	-	A	-	A	C	-	D	A	D	D	A	A	A	A	A	C
Nitric Acid (Conc.)	D	D	D	A	A	D	D	D	D	B	B	D	B	D	-	D	D	D	D	D	A	A	D	D	D
Nitric Acid (Red Fuming)	D	D	D	B	B	D	D	-	D	B	B	D	B	D	-	D	-	D	D	D	A	D	D	D	D
Nitric Acid Dilute	A	D	D	A	A	D	D	-	B	-	A	-	-	-	-	-	-	-	B	-	A	A	-	A	-
Nitro Ethane	A	-	A	-	A	-	D	-	-	-	C	-	-	-	-	-	-	-	C	C	A	-	-	-	-
Nitrobenzene	C	C	C	B	B	C	D	D	D	B	B	D	D	D	-	D	D	C	D	D	A	B	B	D	D
Nitrobenzine	-	-	-	-	-	-	-	-	-	-	A	-	-	-	-	-	-	-	D	-	A	A	-	-	-
Nitroethane	A	-	A	A	-	B	D	-	C	D	D	D	A	-	-	D	D	-	C	C	A	A	A	A	D
Nitrogen	A	-	A	A	A	A	A	-	A	-	A	-	A	B	-	A	A	A	A	A	A	A	A	-	A
Nitrogen Fertilizer	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	A	-	-	-	-
Nitrogen Tetroxide	D	-	D	A	-	-	D	-	D	C	D	D	A	B	-	D	D	-	D	D	A	C	D	A	D
Nitroglycerine	-	-	-	-	-	-	-	-	A	-	A	-	-	D	-	A	-	-	A	-	A	-	A	-	A
Nitromethane	B	A	B	A	A	A	D	-	C	D	D	D	A	D	-	D	D	B	D	C	A	B	A	A	D

CHEMICAL COMPATIBILITY

CHEMICALS	METALS					PLASTICS, ELASTOMERS & LEATHER																			
A: Excellent, B: Good, C: Fair to Poor, D: Not recommended - No Data	Aluminum	Carbon Steel	Cast/Ductile Iron	304 Stainless Steel	316 Stainless Steel	Acetal	Buna	CSM (Hypalon)	EPR, EPDM	Fluorocarbon	Fluoroelastomer (FKM)	Geolast (Buna & Polypropylene)	Hastelloy C	TPE	Leather	Nitrile (TS)	Nitrile (TPE)	Nylon	Polychloroprene	Polypropylene	PTFE	PVDF	Santoprene (EPDM & Polypropylene)	UHMWPE	Urethane
Nitropropane	A	-	A	A	-	-	D	-	B	D	D	D	A	-	-	D	-	-	D	-	A	-	B	A	D
Nitrous Acid	D	D	D	B	B	-	-	-	B	-	B	-	D	-	-	D	D	D	D	D	A	B	-	-	-
Nitrous Oxide	B	B	B	D	B	-	-	-	A	-	B	-	B	-	-	A	A	C	B	D	A	D	-	-	B
N-Methyl Aniline	-	-	-	-	-	-	D	-	-	C	-	-	-	-	-	-	-	-	D	C	A	-	-	-	-
N-Octane	-	-	-	-	-	-	B	-	D	A	A	A	-	-	-	B	D	A	D	D	A	A	B	-	D
n-Propyl Acetate	A	-	-	A	-	-	D	-	A	D	-	D	A	-	-	-	-	-	D	C	A	A	B	-	-
n-Propyl Nitrate (NPN)	A	-	D	-	-	-	A	-	B	C	-	A	-	-	-	-	-	-	-	-	A	-	B	-	-
o-Chlorophenol	B	-	B	B	-	B	D	-	D	B	-	-	B	-	-	-	-	D	D	-	A	A	-	-	-
Octachlorotoluene	D	-	-	-	-	-	D	-	D	A	A	-	-	-	-	D	D	-	D	D	A	-	-	-	D
Octadecane	-	-	-	-	-	-	A	-	D	A	A	-	-	-	-	A	-	-	B	-	A	-	B	-	A
Octane	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Octyl Acetate	A	-	-	A	-	-	D	-	-	D	D	B	-	-	-	D	D	-	-	-	A	-	-	-	-
Octyl Alcohol	A	-	-	A	-	-	B	-	B	A	B	-	A	-	-	B	B	-	B	-	A	-	B	-	D
O-Dichlorobenzene	D	-	B	B	B	-	D	-	D	A	A	D	A	-	-	-	-	-	D	D	A	A	D	-	-
Oils: Aniline	D	A	A	A	A	D	D	D	B	-	C	D	B	D	-	D	D	A	D	A	A	A	C	-	D
Oils: Anise	-	A	A	-	A	D	-	-	-	-	-	-	-	-	-	-	-	-	D	-	A	-	-	-	-
Oils: Bay	-	A	A	-	A	D	-	-	-	-	A	-	-	-	-	-	-	-	D	-	-	A	-	-	-
Oils: Bone	-	A	A	-	A	D	A	-	-	-	A	A	-	-	-	-	-	-	D	A	A	A	-	-	-
Oils: Castor	A	B	B	A	A	A	B	A	B	A	A	A	A	D	A	A	B	A	A	A	A	A	D	A	A
Oils: Cinnamon	-	-	D	A	A	D	-	-	-	-	A	-	-	-	-	-	-	-	D	D	A	-	C	D	-
Oils: Citric	C	D	D	A	A	B	C	-	B	A	A	D	-	-	-	A	B	-	D	A	A	-	C	-	-
Oils: Clove	B	-	D	A	A	-	A	-	-	-	A	A	A	-	-	C	-	-	C	B	A	-	C	A	-
Oils: Coconut	B	A	A	A	A	A	B	C	D	A	A	A	A	-	-	A	B	-	D	A	A	A	B	A	C
Oils: Cod Liver	B	-	D	A	A	B	B	B	A	A	A	A	A	-	-	A	-	-	B	A	A	A	C	A	A
Oils: Corn	B	A	C	B	A	A	D	B	D	A	B	A	A	A	A	A	B	A	D	A	A	A	D	A	A
Oils: Cottonseed	B	A	C	C	A	B	C	B	D	A	A	B	A	A	-	A	B	B	D	A	A	B	B	B	A
Oils: Creosote	B	-	-	B	B	D	D	D	D	-	A	A	B	D	-	-	-	D	C	D	A	-	-	-	-
Oils: Crude	A	-	B	A	A	D	-	-	D	-	A	A	B	B	-	B	C	A	C	D	A	A	D	B	D
Oils: Diesel Fuel (20,30,40,50)	A	A	A	A	A	D	A	B	D	-	A	B	B	A	-	-	-	A	D	B	A	A	-	-	-
Oils: Fish	-	-	-	-	-	-	A	-	D	A	A	B	-	B	-	A	A	-	B	-	A	-	B	A	B
Oils: Fuel (1,2,3,5A,5B,6)	C	A	A	A	A	D	B	D	D	-	B	D	A	A	-	-	-	A	D	B	A	B	-	-	-
Oils: Ginger	-	-	D	D	D	A	A	-	A	A	A	A	-	-	-	-	-	-	A	-	A	A	C	-	-
Oils: Hydraulic Oil (Petro)	A	A	A	A	A	B	A	A	D	-	A	-	A	-	-	-	-	A	A	D	A	A	-	-	-
Oils: Hydraulic Oil (Synthetic)	A	-	-	A	A	-	D	A	A	-	A	-	A	-	-	-	-	A	A	D	A	A	-	-	-

CHEMICAL COMPATIBILITY

CHEMICALS	METALS					PLASTICS, ELASTOMERS & LEATHER																			
A: Excellent, B: Good, C: Fair to Poor, D: Not recommended - No Data	Aluminum	Carbon Steel	Cast/Ductile Iron	304 Stainless Steel	316 Stainless Steel	Acetal	Buna	CSM (Hypalon)	EPR, EPDM	Fluorocarbon	Fluoroelastomer (FKM)	Geolast (Buna & Polypropylene)	Hastelloy C	TPE	Leather	Nitrile (TS)	Nitrile (TPE)	Nylon	Polychloroprene	Polypropylene	PTFE	PVDF	Santoprene (EPDM & Polypropylene)	UHMWPE	Urethane
Oils: Lavender	-	-	-	-	-	-	B	-	D	B	B	B	-	-	-	B	B	-	D	-	A	-	B	-	-
Oils: Lemon	C	-	A	A	A	D	C	-	D	-	A	-	A	-	-	A	-	-	D	D	A	A	C	-	-
Oils: Linseed	B	A	A	A	A	A	A	C	D	A	A	A	B	B	A	A	A	A	D	A	A	A	B	A	B
Oils: Mineral	A	A	A	A	A	A	A	B	D	A	A	A	A	A	A	A	A	A	B	C	A	A	D	C	A
Oils: Neatsfoot	A	-	A	A	A	B	A	-	C	A	A	B	-	D	-	A	A	-	D	-	A	-	B	-	A
Oils: Olive	A	A	A	B	A	A	D	B	D	A	A	A	A	-	-	A	D	A	D	A	A	B	B	A	A
Oils: Orange	A	-	-	A	A	D	A	-	-	-	A	A	A	-	-	-	-	-	D	A	-	A	-	-	-
Oils: Palm	B	A	B	A	A	A	B	-	D	B	A	A	A	-	-	A	-	C	D	A	A	A	B	A	A
Oils: Peanut	A	A	A	A	A	A	A	B	D	A	A	A	A	-	-	A	A	-	D	D	A	A	B	A	B
Oils: Peppermint	D	-	-	A	A	D	D	-	-	A	A	D	-	-	-	D	-	-	D	B	A	A	C	C	-
Oils: Pine	A	C	C	A	A	A	D	D	D	A	A	B	-	D	A	B	B	A	D	D	A	B	C	C	D
Oils: Rapeseed	-	A	A	A	A	A	D	D	A	A	A	A	A	-	-	B	-	-	D	D	A	A	B	D	B
Oils: Rosin	B	-	-	A	A	-	A	-	-	-	A	A	A	-	-	-	-	A	-	A	A	A	-	-	-
Oils: Sesame Seed	A	A	A	A	A	D	A	-	-	A	A	A	-	-	-	A	A	-	D	A	A	A	B	-	-
Oils: Silicone	B	A	B	A	A	A	A	A	A	A	A	A	A	B	-	A	A	A	D	A	A	A	C	A	A
Oils: Soybean	B	A	A	A	A	B	A	C	D	A	A	A	A	B	-	A	A	B	D	B	A	B	C	A	B
Oils: Sperm (whale)	-	A	A	A	A	D	A	-	D	A	A	A	A	-	-	A	-	-	D	A	A	A	B	-	-
Oils: Tall (Liquid Rosin)	-	-	-	-	-	-	-	-	-	-	-	A	-	-	-	-	-	-	-	-	-	-	-	-	-
Oils: Tanning	-	-	-	A	A	D	A	-	-	-	A	A	-	-	-	-	-	-	D	-	-	A	-	-	-
Oils: Transformer	A	-	B	A	A	C	B	-	D	A	A	B	A	-	-	A	B	A	C	D	A	A	D	A	A
Oils: Tung (Wood Oil)	A	A	B	A	B	A	A	-	D	-	B	A	A	B	-	A	D	-	B	A	A	A	B	A	C
Oils: Turbine	A	A	A	A	A	A	B	D	D	-	A	B	-	-	-	B	-	A	D	B	A	A	-	-	A
Oils: Vegetable	B	B	B	A	A	A	B	-	D	A	A	B	A	-	A	A	A	A	D	D	A	A	B	D	A
Oils: Waste	-	-	-	-	-	B	-	-	D	-	-	-	-	-	-	-	-	-	-	-	A	-	-	D	-
Oleic Acid	B	B	C	A	A	C	C	C	D	-	B	B	A	A	A	-	-	B	D	B	A	A	-	A	-
Oleic Acid (Red Oil)	A	-	C	B	-	B	C	-	C	B	A	-	A	A	-	A	D	B	D	B	A	A	B	A	B
Olein (Triolein)	-	-	-	-	-	-	B	-	-	-	-	-	-	-	-	B	-	-	C	-	A	-	D	-	-
Oleum 100% (Fuming Sulfuric)	D	-	D	A	A	D	D	D	D	A	B	D	D	D	-	D	D	D	D	D	A	D	D	D	D
Oleum 25%	B	-	-	B	B	D	D	D	D	-	A	-	A	C	-	-	-	D	D	D	A	C	-	-	-
Oleum Spirits	D	-	D	B	B	-	C	-	D	-	A	-	-	B	-	B	D	-	D	D	A	D	D	A	C
Olive Oil	A	A	A	B	A	A	D	B	D	A	A	A	A	-	-	A	D	A	D	A	A	B	B	A	A
Oronite 8200	-	-	-	-	-	-	-	-	D	-	A	-	-	B	-	B	-	-	A	-	A	-	-	-	A
Oronite 9515	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	B	-	-	-	-	A	-	-	-	-
Orthochloro Ethyl Benzene	-	-	-	-	-	-	-	-	D	-	A	-	-	-	-	D	-	-	D	-	A	-	-	-	D

CHEMICAL COMPATIBILITY

CHEMICALS	METALS					PLASTICS, ELASTOMERS & LEATHER																			
A: Excellent, B: Good, C: Fair to Poor, D: Not recommended - No Data	Aluminum	Carbon Steel	Cast/Ductile Iron	304 Stainless Steel	316 Stainless Steel	Acetal	Buna	CSM (Hypalon)	EPR, EPDM	Fluorocarbon	Fluoroelastomer (FKM)	Geolast (Buna & Polypropylene)	Hastelloy C	TPE	Leather	Nitrile (TS)	Nitrile (TPE)	Nylon	Polychloroprene	Polypropylene	PTFE	PVDF	Santoprene (EPDM & Polypropylene)	UHMWPE	Urethane
Ortho-Dichlorobenzene	-	-	-	-	-	-	-	-	D	-	A	-	-	D	-	D	-	-	D	-	A	-	D	-	D
OS 45 Type 111 (OS45)	-	-	-	-	-	-	-	-	D	-	B	-	-	C	-	B	-	-	A	-	A	-	-	-	D
OS 45 Type IV (OS45-1)	-	-	-	-	-	-	-	-	D	-	B	-	-	-	-	B	-	-	A	-	A	-	-	-	D
OS 70	-	-	-	-	-	-	-	-	D	-	A	-	-	-	-	B	-	-	A	-	A	-	-	-	D
Oxalic Acid - 5% (Hot and Cold)	B	-	D	B	-	D	-	-	A	-	A	-	B	D	-	B	C	-	B	A	A	A	A	A	A
Oxalic Acid (cold)	D	D	D	D	D	D	D	B	A	C	A	D	B	D	A	-	-	B	D	A	A	B	A	A	-
Oxygen	A	B	B	A	A	A	C	-	A	-	A	-	-	B	A	-	-	B	A	C	A	A	A	A	-
Oxygen - 200°-400°F	A	-	A	-	A	-	D	-	-	-	B	-	-	-	-	-	-	D	D	D	A	A	-	-	-
Ozone	B	D	C	B	B	D	D	A	A	A	A	D	A	C	-	D	-	D	C	D	A	A	A	B	A
P Dioxane	-	-	-	-	-	A	D	-	B	-	B	-	-	-	-	-	-	A	D	B	A	D	-	A	-
Paint Thinner, Duco	D	B	B	B	A	A	D	-	D	B	B	-	A	-	A	D	D	A	D	D	A	-	C	-	D
Paints & Solvents	D	-	-	A	A	-	D	-	-	-	-	-	A	-	-	-	-	-	D	-	A	-	-	-	-
Palm Oil	B	A	B	A	A	A	B	-	D	B	A	A	A	-	-	A	-	C	D	A	A	A	B	A	A
Palmitic Acid	C	-	C	B	A	A	A	D	B	-	A	A	B	A	A	A	A	C	D	B	A	A	B	-	A
Para-Dichlorobenzene	-	-	-	-	-	-	-	-	D	-	A	-	-	-	-	D	-	-	D	-	A	-	-	-	D
Paraffin	A	A	A	A	A	A	B	-	D	-	B	A	B	-	A	A	A	A	B	A	A	A	A	A	A
Paraformaldehyde	A	-	A	A	-	-	B	-	A	C	C	B	A	-	-	B	-	-	B	-	A	-	-	-	-
Paraldehyde	A	-	A	A	-	-	C	-	A	D	D	-	A	-	-	D	-	-	D	-	A	-	-	-	-
P-Cymene	-	-	-	-	-	-	-	-	D	-	A	-	-	-	-	D	D	-	D	-	A	-	B	A	D
P-Dichlorobenzene	D	-	B	B	-	B	-	-	D	-	A	-	A	D	-	D	D	-	D	B	A	A	D	-	D
Peanut Oil	A	A	A	A	A	A	A	B	D	A	A	A	A	-	-	A	A	-	D	D	A	A	B	A	B
Pentachloroethane (Pentalin)	D	-	A	A	-	A	D	-	-	A	A	D	A	-	-	D	D	-	D	D	A	A	-	-	-
Pentachlorophenol (PCP)	A	-	A	A	-	-	D	-	D	A	A	D	A	-	-	D	-	-	D	-	A	-	-	-	D
Pentane	B	-	C	C	C	B	A	B	D	A	A	A	B	B	-	A	-	A	B	D	A	A	A	A	D
Peppermint Oil	D	-	-	A	A	D	D	-	-	A	A	D	-	-	-	D	-	-	D	B	A	A	C	C	-
Perchloric Acid	D	D	D	D	D	C	D	-	B	A	A	D	B	D	-	D	D	D	B	D	D	A	D	C	D
Perchloric Acid-10%	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Perchloric Acid-70%	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Perchloroethylene	D	A	B	B	A	B	D	D	D	A	B	D	B	D	-	D	D	D	D	D	A	A	D	B	D
Permachlor (Degreasing Fluid)	-	-	-	-	-	-	-	-	D	-	C	-	-	-	-	D	-	-	-	-	A	-	-	-	-
Petrolatum	B	-	-	A	A	B	A	-	D	-	A	A	A	-	-	A	A	D	B	D	C	A	-	-	D
Petroleum	D	-	C	A	A	B	A	D	D	-	A	-	-	B	-	-	-	A	B	B	A	A	C	C	-
Petroleum - Above 250	A	-	A	-	A	-	C	-	-	-	B	-	-	-	-	-	-	D	D	-	A	-	-	-	-
Petroleum - Below 250	A	-	A	-	A	-	A	-	-	-	A	-	-	-	-	-	-	A	B	A	A	A	-	-	-

CHEMICAL COMPATIBILITY

CHEMICALS	METALS					PLASTICS, ELASTOMERS & LEATHER																			
A: Excellent, B: Good, C: Fair to Poor, D: Not recommended - No Data	Aluminum	Carbon Steel	Cast/Ductile Iron	304 Stainless Steel	316 Stainless Steel	Acetal	Buna	CSM (Hypalon)	EPR, EPDM	Fluorocarbon	Fluoroelastomer (FKM)	Geolast (Buna & Polypropylene)	Hastelloy C	TPE	Leather	Nitrile (TS)	Nitrile (TPE)	Nylon	Polychloroprene	Polypropylene	PTFE	PVDF	Santoprene (EPDM & Polypropylene)	UHMWPE	Urethane
Petroleum Ether	B	-	B	A	A	A	-	-	D	-	A	-	D	-	-	A	A	A	D	A	A	B	-	A	B
Petroleum Oil, Crude	B	-	B	A	-	A	B	-	D	A	A	-	A	A	-	A	C	A	C	D	A	A	C	A	A
Petroleum Oils (Refined)	-	-	-	-	-	A	-	-	D	-	A	-	-	A	-	A	B	-	B	B	A	A	C	A	B
Petroleum Oils (Sour)	B	-	B	A	-	A	-	-	D	-	A	-	A	B	-	B	C	-	B	B	A	A	C	A	B
Phenethyl Alcohol	A	-	A	A	-	-	D	-	B	D	-	-	A	-	-	-	-	-	D	-	A	-	-	-	-
Phenol	B	-	D	A	-	A	-	-	-	-	A	-	A	D	-	D	D	-	D	C	A	A	A	C	D
Phenol (10%)	A	D	D	B	B	B	D	D	B	-	A	-	B	-	-	-	-	D	D	B	A	A	-	-	-
Phenol (Carbolic Acid)	B	D	D	B	B	D	D	D	C	A	A	-	A	D	-	-	-	D	D	C	A	A	A	C	-
Phenol Sulfonic Acid	D	-	D	B	B	-	-	-	-	-	D	-	A	-	-	D	-	-	-	-	A	B	-	-	-
Phenyl Acetate	-	-	-	-	-	-	D	-	B	D	D	-	-	-	-	D	-	-	D	-	A	-	-	-	D
Phenyl Ethyl Ether	-	-	-	-	-	-	D	-	D	C	C	-	-	-	-	-	-	-	D	-	A	-	C	-	-
Phenyl Hydrazine	A	-	D	-	-	-	D	-	D	A	A	D	-	-	-	D	-	-	D	D	A	D	B	-	-
Phenyl Sulfonic Acid	B	-	B	B	-	-	D	-	-	D	-	D	-	-	-	-	-	-	-	-	A	-	-	-	-
Phenylbenzene	-	-	-	-	-	-	D	-	D	A	A	-	-	-	-	D	-	-	D	-	A	-	C	-	D
Phorone (Diisopropylidene Acetone)	-	-	-	-	-	-	D	-	C	A	D	-	-	-	-	D	-	-	D	-	A	-	B	A	D
Phosphate Esters	-	-	-	-	-	-	-	-	A	-	D	-	-	-	-	D	-	-	D	-	A	-	-	-	D
Phosphoric Acid - 10%	D	-	D	A	-	-	A	-	A	A	-	-	-	-	-	-	-	D	B	A	A	A	A	A	-
Phosphoric Acid - 20%	D	-	D	A	B	D	C	-	A	A	A	D	A	-	-	B	-	D	B	A	A	A	A	A	C
Phosphoric Acid - 45%	D	-	D	-	B	-	D	-	-	-	A	-	-	-	-	-	-	D	B	A	A	A	-	-	-
Phosphoric Acid - 50%	D	-	D	A	-	-	D	-	B	A	-	D	C	-	-	-	-	D	B	A	A	A	B	A	-
Phosphoric Acid (>40%)	D	D	D	D	D	D	D	B	B	-	A	-	A	D	-	D	-	C	D	A	A	B	C	B	D
Phosphoric Acid (Concentrated)	D	-	D	A	-	-	D	-	B	A	-	D	-	-	-	-	-	D	B	A	A	A	-	A	-
Phosphoric Acid (crude)	C	D	D	D	B	D	D	B	B	-	A	-	A	-	-	-	-	B	D	B	A	A	-	-	-
Phosphoric Acid (molten)	C	-	-	-	C	D	-	-	-	-	-	-	C	-	-	-	-	-	A	D	-	D	-	-	-
Phosphoric Acid (S40%)	C	D	D	D	C	D	D	B	B	-	A	-	A	-	-	-	-	B	B	A	A	B	-	-	-
Phosphoric Acid (To 40% Solution)	D	-	D	-	A	-	D	-	-	-	A	-	A	-	-	-	-	D	D	A	A	A	-	-	-
Phosphoric Acid Aerated	D	D	D	A	B	D	-	-	-	-	-	-	-	-	-	-	-	D	-	B	A	A	-	A	-
Phosphoric Acid Air Free	D	D	D	D	A	D	-	-	-	-	-	-	-	D	-	-	-	D	-	B	A	A	A	A	-
Phosphoric Acid Anhydride	C	-	-	-	-	D	D	-	-	-	-	-	-	-	-	-	-	-	A	A	-	D	-	-	-
Phosphoric Acid Boiling	D	D	D	D	D	D	-	-	-	-	-	-	-	-	-	-	-	D	-	A	A	A	-	D	-
Phosphoric Acid Crude	D	-	D	-	C	-	D	-	-	-	A	-	A	-	-	-	-	C	D	A	A	A	-	-	-
Phosphorous Oxychloride	B	-	B	B	-	-	-	-	-	-	-	-	B	-	-	-	-	-	D	-	A	-	-	-	-
Phosphorous Trichloride Acid	D	-	B	A	A	D	D	-	A	-	A	-	A	-	-	D	D	-	D	D	A	A	B	A	-
Phosphorus	B	A	A	A	A	B	-	-	-	-	-	-	A	-	-	-	-	-	-	B	A	A	-	A	-

CHEMICAL COMPATIBILITY

CHEMICALS	METALS					PLASTICS, ELASTOMERS & LEATHER																			
A: Excellent, B: Good, C: Fair to Poor, D: Not recommended - No Data	Aluminum	Carbon Steel	Cast/Ductile Iron	304 Stainless Steel	316 Stainless Steel	Acetal	Buna	CSM (Hypalon)	EPR, EPDM	Fluorocarbon	Fluoroelastomer (FKM)	Geolast (Buna & Polypropylene)	Hastelloy C	TPE	Leather	Nitrile (TS)	Nitrile (TPE)	Nylon	Polychloroprene	Polypropylene	PTFE	PVDF	Santoprene (EPDM & Polypropylene)	UHMWPE	Urethane
Phosphorus Pentachloride	-	-	-	-	B	-	-	-	-	-	-	-	-	-	-	-	-	-	-	B	A	A	-	-	-
Phosphorus Trichloride	D	-	B	A	A	D	D	D	A	A	A	D	A	-	-	-	-	-	D	D	A	A	B	A	-
Photographic Developer	C	D	D	A	A	D	A	A	B	A	A	A	B	D	-	A	B	B	A	A	A	A	A	A	B
Photographic Solutions	A	D	D	D	A	D	B	A	A	-	B	-	B	D	-	-	-	A	B	A	A	B	-	A	-
Phthalic Acid	B	-	A	B	B	C	D	A	A	-	A	D	B	-	-	C	D	B	C	B	A	A	-	A	-
Phthalic Anhydride	A	A	A	A	A	C	D	-	A	-	A	D	A	-	-	C	-	-	A	D	A	A	-	-	-
Pickling Solution	-	-	-	-	-	D	-	-	D	B	B	-	A	D	-	D	D	-	D	-	A	-	A	A	C
Picric Acid	D	D	D	D	D	D	C	B	C	A	A	B	D	D	A	D	B	D	C	D	A	A	B	A	C
Pine Oil	A	C	C	A	A	A	D	D	D	A	A	B	-	D	A	B	B	A	D	D	A	B	C	C	D
Pinene	-	-	-	-	-	-	B	-	D	A	A	-	-	D	-	B	B	-	D	-	A	-	C	A	D
Piperidine	-	-	-	-	-	-	D	-	D	D	D	-	-	D	-	D	-	-	D	-	A	-	B	-	D
Pitch	-	-	-	-	-	-	-	-	D	-	A	-	-	D	-	A	A	-	D	-	A	-	-	-	D
Plating Solutions - Antimony	D	A	A	A	A	A	A	-	-	-	A	-	A	-	-	A	B	D	A	A	A	A	A	A	-
Plating Solutions - Arsenic	C	A	A	A	A	A	A	-	-	-	A	-	A	-	-	A	B	A	A	A	A	A	A	A	-
Plating Solutions - Brass	C	A	A	A	A	A	A	-	A	-	A	-	A	-	-	A	B	A	A	A	A	B	A	A	-
Plating Solutions - Brass (High-Speed Bath 110°F)	A	A	A	-	A	A	A	-	-	-	A	-	A	-	-	-	-	A	A	A	A	B	-	-	-
Plating Solutions - Bronze	C	A	A	A	A	B	A	-	A	-	A	-	A	-	-	A	B	A	A	A	A	A	A	A	-
Plating Solutions - Bronze (Cu-Sn Bronze Bath 160°F)	A	A	A	A	A	B	A	-	A	-	A	-	A	-	-	-	-	A	A	A	A	A	-	-	-
Plating Solutions - Bronze (Cu-Zn Bronze Bath 100°F)	A	A	A	A	A	A	A	-	-	-	A	-	A	-	-	-	-	A	A	A	A	A	-	-	-
Plating Solutions - Cadmium	C	-	A	-	A	-	A	-	-	-	A	-	D	-	-	-	-	A	A	A	A	B	-	A	-
Plating Solutions - Cadmium (Cyanide Bath 90°F)	A	A	A	-	A	A	A	-	-	-	A	-	A	-	-	-	-	A	A	A	A	A	-	-	-
Plating Solutions - Cadmium (Fluoborate Bath 100°F)	A	D	D	A	A	C	B	-	-	-	A	-	D	-	-	-	-	D	C	A	A	A	-	-	-
Plating Solutions - Cadmium	C	-	A	A	-	D	B	-	B	-	A	-	A	-	-	A	B	B	A	A	A	A	A	A	-
Plating Solutions - Chrome	D	-	D	A	A	D	D	-	C	A	A	-	D	-	-	D	D	D	D	A	A	B	A	A	-
Plating Solutions - Chrome (Barrel Chrome Bath 95°F)	A	C	C	-	D	D	D	-	-	-	C	-	D	-	-	-	-	D	D	A	A	C	-	-	-
Plating Solutions - Chrome (Black Chrome Bath 115°F)	A	A	A	-	C	D	C	-	-	-	C	-	D	-	-	-	-	D	D	A	A	C	-	-	-
Plating Solutions - Chrome (Chromic-Sulfuric Bath 130°F)	A	A	A	-	C	D	D	-	-	-	C	-	D	-	-	-	-	D	D	A	A	C	-	-	-
Plating Solutions - Chrome (Fluoride Bath 130°F)	A	C	C	-	D	D	D	-	-	-	C	-	D	-	-	-	-	D	D	A	A	C	-	-	-
Plating Solutions - Chrome (Fluosilicate Bath 95°F)	A	C	C	-	C	D	D	-	-	-	C	-	D	-	-	-	-	D	D	D	A	C	-	-	-
Plating Solutions - Copper	C	-	A	A	-	-	A	-	A	-	A	-	D	-	-	A	B	A	A	A	A	B	A	A	D
Plating Solutions - Copper (Copper Fluoborate Bath 120°F)	A	D	D	A	D	C	B	-	-	-	A	-	D	-	-	-	-	D	C	A	A	A	-	-	-
Plating Solutions - Copper (Copper Sulfate Bath R.T.)	A	A	A	-	D	A	A	-	-	-	A	-	D	-	-	-	-	D	A	A	A	A	-	-	-
Plating Solutions - Copper (Electroless)	A	-	-	-	-	D	D	-	-	-	A	-	-	-	-	-	-	A	D	A	A	A	-	-	-
Plating Solutions - Copper (High-Speed Bath 180°F)	A	A	A	-	A	B	A	-	-	-	A	-	A	-	-	-	-	A	B	A	A	A	-	-	-

CHEMICAL COMPATIBILITY

CHEMICALS	METALS					PLASTICS, ELASTOMERS & LEATHER																			
A: Excellent, B: Good, C: Fair to Poor, D: Not recommended - No Data	Aluminum	Carbon Steel	Cast/Ductile Iron	304 Stainless Steel	316 Stainless Steel	Acetal	Buna	CSM (Hypalon)	EPR, EPDM	Fluorocarbon	Fluoroelastomer (FKM)	Geolast (Buna & Polypropylene)	Hastelloy C	TPE	Leather	Nitrile (TS)	Nitrile (TPE)	Nylon	Polychloroprene	Polypropylene	PTFE	PVDF	Santoprene (EPDM & Polypropylene)	UHMWPE	Urethane
Plating Solutions - Copper (Pyrophosphate)	A	A	A	-	A	A	A	-	-	-	A	-	A	-	-	-	-	A	A	A	A	A	-	-	-
Plating Solutions - Copper (Rochelle Salt Bath 150°F)	A	A	A	-	A	B	A	-	-	-	A	-	A	-	-	-	-	A	B	A	A	A	-	-	-
Plating Solutions - Copper (Copper Strike Bath 120°F)	-	A	A	-	A	A	A	-	-	-	A	-	A	-	-	-	-	A	A	A	A	B	-	-	-
Plating Solutions - Gold	C	-	-	A	D	-	A	-	A	-	A	-	A	-	-	A	B	A	A	A	A	B	A	A	-
Plating Solutions - Gold (Acid 75°F)	-	-	-	-	C	-	A	-	-	-	A	-	A	-	-	-	-	A	A	A	A	-	-	-	-
Plating Solutions - Gold (Cyanide 150°F)	-	-	-	-	A	-	A	-	-	-	A	-	A	-	-	-	-	A	A	A	A	-	-	-	-
Plating Solutions - Gold (Neutral 75°F)	-	-	-	-	C	-	A	-	-	-	A	-	A	-	-	-	-	A	A	A	A	-	-	-	-
Plating Solutions - Indium	C	-	-	A	C	-	A	-	-	-	A	-	A	-	-	A	B	D	A	A	A	-	A	A	-
Plating Solutions - Iron	C	-	-	A	A	-	A	-	-	-	A	-	A	-	-	A	B	D	A	A	A	A	A	A	-
Plating Solutions - Iron (Ferrous Chloride Bath 190°F)	-	-	-	-	D	-	B	-	-	-	A	-	D	-	-	-	-	D	D	C	A	-	-	-	-
Plating Solutions - Iron (Fluoborate Bath 145°F)	-	-	-	-	D	-	B	-	-	-	A	-	B	-	-	-	-	D	C	A	A	-	-	-	-
Plating Solutions - Iron (Sulfamate 140°F)	-	-	-	-	D	-	A	-	-	-	A	-	B	-	-	-	-	D	A	A	A	-	-	-	-
Plating Solutions - Iron (Sulfate-Chloride Bath 160°F)	-	-	-	-	D	-	B	-	-	-	A	-	D	-	-	-	-	D	C	A	A	-	-	-	-
Plating Solutions - Iron (Ferrous Am Sulfate Bath 150°F)	-	-	-	-	C	-	A	-	-	-	A	-	A	-	-	-	-	D	B	A	A	-	-	-	-
Plating Solutions - Iron (Ferrous Sulfate Bath 150°F)	-	-	-	-	C	-	A	-	-	-	A	-	A	-	-	-	-	D	B	A	A	-	-	-	-
Plating Solutions - Lead	C	-	-	A	C	A	B	-	A	-	A	-	A	-	-	B	C	D	B	A	A	B	A	C	-
Plating Solutions - Nickel	C	-	-	A	A	-	A	-	A	-	A	-	A	-	-	A	B	A	A	A	A	A	A	A	-
Plating Solutions - Nickel (Electroless 200°F)	-	-	-	-	-	-	D	-	-	-	A	-	-	-	-	-	-	D	D	D	A	-	-	-	-
Plating Solutions - Nickel (Fluoborate 100-170°F)	-	-	-	-	C	-	B	-	-	-	A	-	A	-	-	-	-	D	A	A	A	-	-	-	-
Plating Solutions - Nickel (High-Chloride 130-160°F)	-	-	-	-	C	-	A	-	-	-	A	-	A	-	-	-	-	D	B	A	A	-	-	-	-
Plating Solutions - Nickel (Sulfamate 100-140°F)	-	-	-	-	C	-	A	-	-	-	A	-	A	-	-	-	-	A	A	A	A	-	-	-	-
Plating Solutions - Nickel (Watts Type 115-160°F)	-	-	-	-	C	-	A	-	-	-	A	-	A	-	-	-	-	A	A	A	A	-	-	-	-
Plating Solutions - Others	-	-	-	A	-	-	A	-	A	B	-	-	-	-	-	-	-	-	C	-	A	-	A	A	-
Plating Solutions - Silver	C	-	-	A	A	-	A	-	A	-	A	-	A	-	-	A	B	A	A	A	A	A	A	A	-
Plating Solutions - Silver (80-120°F)	-	-	-	-	A	-	A	-	A	-	A	-	A	-	-	-	-	A	A	A	A	-	-	-	-
Plating Solutions - Tin	C	-	-	B	A	-	A	-	A	-	A	-	A	-	-	B	B	D	A	A	A	B	A	A	-
Plating Solutions - Tin (Fluoborate Plating 100°F)	-	-	-	-	C	-	B	-	-	-	A	-	A	-	-	-	-	D	C	A	A	-	-	-	-
Plating Solutions - Tin (Lead Plating 100°F)	-	-	-	-	C	-	B	-	-	-	A	-	A	-	-	-	-	D	C	A	A	-	-	-	-
Plating Solutions - Zinc	C	-	-	A	A	-	A	-	A	-	A	-	A	-	-	A	B	D	A	A	A	B	A	A	-
Plating Solutions - Zinc (Acid Chloride 140°F)	-	-	-	-	D	-	A	-	-	-	A	-	D	-	-	-	-	D	A	A	A	-	-	-	-
Plating Solutions - Zinc (Acid Fluoborate Bath R.T.)	-	-	-	-	C	-	B	-	-	-	A	-	A	-	-	-	-	D	C	A	A	-	-	-	-
Plating Solutions - Zinc (Acid Sulfate Bath 150°F)	-	-	-	-	C	-	A	-	-	-	A	-	A	-	-	-	-	D	B	A	A	-	-	-	-
Plating Solutions - Zinc (Alkaline Cyanide Bath R.T.)	-	-	-	-	A	-	A	-	-	-	A	-	A	-	-	-	-	A	A	A	A	-	-	-	-
Plating Solutions - Rhodium Plating 120°F	-	-	-	-	D	-	A	-	A	-	A	-	D	-	-	-	-	D	B	A	A	-	-	-	-

CHEMICAL COMPATIBILITY

CHEMICALS	METALS					PLASTICS, ELASTOMERS & LEATHER																			
A: Excellent, B: Good, C: Fair to Poor, D: Not recommended - No Data	Aluminum	Carbon Steel	Cast/Ductile Iron	304 Stainless Steel	316 Stainless Steel	Acetal	Buna	CSM (Hypalon)	EPR, EPDM	Fluorocarbon	Fluoroelastomer (FKM)	Geolast (Buna & Polypropylene)	Hastelloy C	TPE	Leather	Nitrile (TS)	Nitrile (TPE)	Nylon	Polychloroprene	Polypropylene	PTFE	PVDF	Santoprene (EPDM & Polypropylene)	UHMWPE	Urethane
Polyvinyl Acetate Emulsion	-	-	B	-	-	A	-	-	A	-	D	-	-	-	-	A	B	-	C	B	A	A	A	-	-
Potash (Potassium Carbonate)	D	C	C	B	B	B	A	-	A	-	A	A	B	D	-	-	-	A	B	A	A	A	-	-	-
Potassium Acetate	D	B	B	B	B	A	B	-	A	D	D	A	B	-	-	B	B	B	B	A	A	A	A	A	D
Potassium Aluminum Sulfate	C	-	D	D	B	A	-	-	-	-	-	-	-	-	-	-	-	D	-	A	A	A	-	A	-
Potassium Bicarbonate	D	B	B	B	B	C	A	-	A	A	A	A	B	-	A	A	A	A	A	A	A	B	A	A	D
Potassium Bichromate	B	-	B	B	B	C	-	-	-	-	-	-	-	B	-	-	-	D	-	A	A	B	-	A	-
Potassium Bisulfate	A	-	D	A	-	-	A	-	-	A	-	A	-	-	-	-	-	-	A	A	A	A	-	A	-
Potassium Bisulfite	B	-	-	B	-	-	A	-	A	A	A	A	B	-	-	A	A	-	A	A	A	-	-	-	A
Potassium Bromide	D	D	D	D	B	A	A	-	A	A	A	A	B	-	A	A	A	A	A	A	A	A	A	A	D
Potassium Carbonate (Potash)	D	B	B	B	B	B	A	-	A	A	A	-	B	D	-	A	A	C	B	A	A	A	A	A	D
Potassium Chlorate	D	C	C	B	B	B	A	-	A	A	A	A	B	-	A	A	A	D	A	A	A	A	A	A	A
Potassium Chloride	D	D	D	C	C	B	A	A	A	A	A	A	B	D	A	A	A	B	A	A	A	A	A	A	A
Potassium Chromate	B	B	B	B	B	D	A	-	A	A	A	A	A	-	A	A	A	B	A	A	A	B	A	A	B
Potassium Copper Cyanide	-	-	-	-	-	-	A	-	A	A	-	-	-	-	-	-	-	-	A	A	A	A	-	-	-
Potassium Cupro Cyanide	-	-	-	-	-	C	A	-	B	-	A	-	-	-	-	A	-	-	A	A	A	A	-	-	-
Potassium Cyanide	D	B	B	B	B	C	A	A	A	A	A	A	B	B	A	A	A	A	B	A	A	A	A	A	A
Potassium Dichromate	B	B	B	B	B	D	A	A	A	A	A	A	B	C	-	A	A	D	A	A	A	A	A	A	B
Potassium Ferricyanide	B	C	C	B	B	B	D	A	A	-	A	D	B	-	-	C	-	B	A	A	A	A	-	A	-
Potassium Ferrocyanide	B	C	C	B	B	B	D	-	A	-	A	D	B	-	-	-	-	B	A	A	A	A	-	-	-
Potassium Hydrate	D	-	B	A	B	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	A	-	-	-	-
Potassium Hydroxide	D	B	C	B	A	C	B	A	A	B	D	-	B	D	-	B	A	D	B	A	A	A	A	A	B
Potassium Hypochlorite	D	A	D	D	B	D	A	A	A	-	D	A	B	-	-	B	B	B	B	D	B	B	-	-	B
Potassium Iodide	B	A	A	B	A	-	A	A	A	A	A	A	B	-	-	A	B	A	A	A	A	A	-	B	-
Potassium Nitrate	B	A	B	B	B	B	A	A	A	A	A	A	B	B	A	A	A	D	A	A	A	A	A	A	A
Potassium Nitrite	B	-	B	B	-	-	A	-	A	A	-	-	B	-	-	-	-	-	A	-	A	-	-	-	-
Potassium Oxalate	B	A	A	B	B	-	-	-	-	-	-	-	A	-	-	-	-	-	-	-	A	-	-	-	-
Potassium Permanganate	B	B	B	B	B	C	C	-	A	B	A	D	A	D	-	B	D	D	C	B	A	A	A	A	B
Potassium Phosphate	D	-	D	B	-	-	A	-	A	A	A	-	B	-	-	A	-	-	A	-	A	-	-	-	C
Potassium Salts	-	-	-	-	-	-	-	-	A	-	A	-	-	-	-	A	A	-	A	-	A	-	-	-	A
Potassium Silicate	B	-	B	B	-	-	A	-	A	A	-	-	B	-	-	-	-	-	A	-	A	-	-	-	-
Potassium Silicide	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	A	-	-	-	-
Potassium Sulfate	C	A	B	B	B	B	A	A	A	A	A	A	B	B	-	A	A	B	A	A	A	A	A	A	A
Potassium Sulfide	D	B	B	B	B	-	A	B	A	A	A	A	B	-	-	A	A	A	A	A	A	A	-	A	A
Potassium Sulfite	A	A	D	B	A	-	A	-	A	A	A	-	-	-	-	A	A	-	A	A	A	A	-	A	A

CHEMICAL COMPATIBILITY

CHEMICALS	METALS					PLASTICS, ELASTOMERS & LEATHER																			
A: Excellent, B: Good, C: Fair to Poor, D: Not recommended - No Data	Aluminum	Carbon Steel	Cast/Ductile Iron	304 Stainless Steel	316 Stainless Steel	Acetal	Buna	CSM (Hypalon)	EPR, EPDM	Fluorocarbon	Fluoroelastomer (FKM)	Geolast (Buna & Polypropylene)	Hastelloy C	TPE	Leather	Nitrile (TS)	Nitrile (TPE)	Nylon	Polychloroprene	Polypropylene	PTFE	PVDF	Santoprene (EPDM & Polypropylene)	UHMWPE	Urethane
Potassium Triphosphate	-	-	-	-	-	-	-	-	B	-	-	-	-	A	-	-	A	-	-	-	D	-	-	A	A
PRL-High Temp. Hydr. Oil	-	-	-	-	-	-	-	-	D	-	A	-	-	-	-	B	B	-	B	-	A	-	-	A	B
Producer Gas	-	-	-	-	-	A	A	-	D	-	A	-	-	-	-	A	-	-	B	-	A	-	-	D	A
Propane	A	A	A	A	A	A	A	-	D	-	A	-	-	B	-	-	-	A	B	D	A	A	-	A	-
Propane (Liquified)	A	A	A	A	A	A	A	-	D	-	A	A	A	B	-	A	B	A	C	B	A	B	-	C	B
Propane (LPG)	A	-	B	A	-	A	A	-	D	A	A	-	A	B	-	A	B	C	B	D	A	A	C	C	B
Propane Propionitrile	-	-	-	-	-	-	-	-	D	-	A	-	-	-	-	A	-	-	B	-	A	-	-	A	D
Propionaidehyde (Propanol)	A	-	A	A	-	-	D	-	A	D	D	-	A	-	-	D	-	-	D	-	A	-	-	-	D
Propionic Acid	A	-	D	B	-	-	D	-	A	A	D	-	A	-	-	D	-	-	D	-	A	-	A	-	D
Propyl Acetate	A	A	A	A	A	A	D	-	B	-	D	A	A	-	-	D	D	-	D	C	A	A	B	-	D
Propyl Alcohol	A	-	-	A	-	-	A	-	-	A	-	-	A	-	-	-	-	-	A	A	A	A	A	A	-
Propyl Alcohol	A	A	A	A	A	A	B	-	A	A	A	-	A	-	-	A	B	D	B	A	A	B	A	A	D
Propyl Nitrate	B	-	D	A	-	A	-	-	B	-	D	-	-	-	-	D	-	-	D	C	A	D	B	-	D
Propylene	A	A	A	B	A	A	D	D	D	A	A	D	A	-	-	D	-	-	D	A	A	A	B	A	D
Propylene Chlorohydrin	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	A	A	-	-	-
Propylene Dichloride	D	-	A	A	-	-	D	-	D	B	A	-	B	-	-	D	-	-	D	-	A	-	-	D	D
Propylene Glycol	B	A	B	B	B	D	A	A	A	A	A	-	B	-	-	A	A	B	C	A	A	A	A	B	B
Propylene Oxide	B	B	B	A	A	A	D	-	C	D	D	-	-	-	-	D	D	-	D	D	A	D	A	A	D
Pryanol, Transformer Oil	-	-	-	-	-	-	-	-	D	-	A	-	-	-	-	A	-	-	D	-	A	-	-	C	B
P-Tertiary Butyl Catechol	C	-	B	B	-	A	-	-	B	-	A	-	-	-	-	D	-	-	B	-	A	-	B	-	-
Pydraul	A	-	A	A	A	-	D	-	B	A	A	-	A	B	-	-	-	C	D	-	A	-	A	-	-
Pyranol	-	-	-	-	-	-	A	-	-	A	A	-	-	-	-	-	-	-	D	-	A	-	-	-	-
Pyridine	B	B	B	B	B	C	D	D	C	D	D	D	B	C	-	D	-	D	D	C	A	D	A	D	D
Pyrogallic Acid	B	D	D	D	B	D	-	-	B	-	A	-	B	-	-	D	-	-	A	A	A	B	-	C	D
Pyroligneous Acid (Wood Vinegar)	D	-	D	B	B	D	D	-	C	A	D	D	-	-	-	D	D	D	D	B	A	B	-	D	D
Pyrolube	-	-	-	-	-	-	-	-	B	-	A	-	-	-	-	D	-	-	D	-	A	-	A	-	D
Pyrrrole	-	-	-	-	-	-	D	-	D	C	D	-	-	-	-	D	-	-	D	-	A	-	C	-	-
Quaternary Ammonium Salts	-	-	D	A	-	-	A	-	-	A	A	-	-	-	-	A	-	-	A	-	A	-	-	-	-
Quench Oil	A	-	-	A	-	-	B	-	D	A	A	-	A	-	-	A	-	-	D	-	A	-	-	-	A
Quinine Bisulfate	-	-	-	B	B	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	A	-	-	-	-
Quinine Bisulphate (Dry)	D	-	D	B	-	D	-	-	A	-	A	-	A	-	-	A	D	-	A	D	A	D	-	A	A
Quinine Sulfate	-	-	-	B	B	-	-	-	-	-	-	-	-	-	-	-	-	-	-	A	A	-	-	-	-
Quinine Sulphate (Dry)	D	-	D	A	-	D	-	-	A	-	A	-	A	-	-	A	D	-	A	D	A	D	-	A	A
Radiation	-	-	-	-	-	D	B	-	C	-	D	-	-	-	-	B	-	-	C	-	A	-	-	-	B

CHEMICAL COMPATIBILITY

CHEMICALS	METALS					PLASTICS, ELASTOMERS & LEATHER																			
A: Excellent, B: Good, C: Fair to Poor, D: Not recommended - No Data	Aluminum	Carbon Steel	Cast/Ductile Iron	304 Stainless Steel	316 Stainless Steel	Acetal	Buna	CSM (Hypalon)	EPR, EPDM	Fluorocarbon	Fluoroelastomer (FKM)	Geolast (Buna & Polypropylene)	Hastelloy C	TPE	Leather	Nitrile (TS)	Nitrile (TPE)	Nylon	Polychloroprene	Polypropylene	PTFE	PVDF	Santoprene (EPDM & Polypropylene)	UHMWPE	Urethane
Rapeseed Oil	-	A	A	A	A	A	D	D	A	A	A	A	A	-	-	B	-	-	D	D	A	A	B	D	B
Red Line Oil	-	-	-	-	-	-	A	-	D	-	A	-	-	-	-	A	-	-	C	-	A	-	-	-	A
Resorcinol	-	-	-	-	-	-	-	-	B	-	A	-	-	D	-	-	-	D	D	A	A	-	D	-	-
RJ-1 (Mil-F-25558)	-	-	-	-	-	-	-	-	D	-	A	-	-	-	-	A	-	-	B	-	-	-	-	A	B
Rose Oil	-	-	-	A	-	-	-	-	-	A	A	-	-	-	-	-	-	-	C	-	A	-	A	-	A
Rosin	B	D	D	B	B	B	A	B	D	-	A	A	A	-	-	A	A	A	C	A	A	-	A	D	D
Rosin Oil	B	-	-	A	A	-	A	-	A	A	A	A	A	-	-	-	-	A	A	A	A	A	-	-	-
Rosin Paper Mill	A	-	D	A	-	B	-	-	A	-	A	-	A	-	-	A	-	-	A	A	A	-	A	D	D
Rotenone X	-	-	-	-	-	-	-	-	A	-	A	-	-	-	-	A	-	-	A	-	A	-	-	-	-
RP-1 (Mil-R-25576)	-	-	-	-	-	-	-	-	D	-	A	-	-	-	-	A	-	-	C	-	-	-	-	A	C
Rubber Latex Emulsions	A	-	-	A	-	-	-	-	-	A	-	A	A	-	-	-	-	-	-	-	A	-	-	-	-
Rubber Solvents	A	-	-	A	-	-	D	-	-	D	-	-	A	-	-	-	-	-	C	-	A	-	-	-	-
Rum	-	-	-	A	A	A	A	A	A	B	B	A	A	-	-	A	A	A	A	A	A	-	A	-	D
Rust Inhibitors	-	C	C	A	A	A	A	-	-	A	A	A	-	-	-	A	A	-	C	A	-	-	B	-	A
Sal Ammoniac	D	-	D	B	A	D	A	-	A	A	A	-	A	A	-	A	-	B	A	A	A	A	A	A	A
Sal Soda	D	-	A	A	-	-	A	-	A	A	A	-	A	-	-	A	A	-	A	-	A	-	B	-	-
Salad Dressings	B	D	D	A	A	A	A	-	D	A	D	A	-	D	-	D	D	A	D	A	-	-	A	-	D
Salicylaldehyde	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	B	A	A	-	-	-
Salicylic Acid	B	A	D	B	B	D	B	A	A	B	A	B	A	-	-	A	A	A	D	B	A	A	A	A	-
Salt Brine	C	D	D	B	D	B	A	A	A	-	A	-	A	A	-	-	-	A	A	A	A	A	-	A	-
Salt Water	D	D	D	C	B	A	A	-	A	A	A	-	A	A	A	A	A	A	B	A	A	A	A	A	D
Sannic Fluorborate	D	-	D	-	-	C	-	-	-	-	A	-	-	-	-	A	-	-	A	-	-	-	-	-	-
Santo Safe 300	-	-	-	-	-	-	-	-	C	-	A	-	-	B	-	D	-	-	D	-	A	-	-	A	-
Sea Water	D	D	D	C	C	A	A	A	A	-	A	A	A	A	A	A	A	A	B	A	A	A	A	A	A
Sea Water (Brine)	A	-	C	A	-	A	A	-	A	A	-	-	A	-	-	-	-	A	B	A	A	A	A	A	-
Sesame Seed Oil	A	A	A	A	A	D	A	-	-	A	A	A	-	-	-	A	A	-	D	A	A	A	B	-	-
Sewage	D	D	D	A	A	A	A	-	C	A	A	-	A	B	-	A	A	-	B	A	A	A	A	A	D
Shellac	A	A	A	A	A	B	-	-	A	-	A	-	A	D	-	A	A	A	D	A	A	-	A	D	D
Shellac (Bleached)	A	A	A	A	A	A	A	A	D	-	A	A	-	-	-	-	-	A	B	A	A	-	-	-	-
Shellac (Orange)	A	A	A	A	A	A	A	-	D	-	A	-	-	-	-	-	-	A	D	A	A	-	-	-	-
Silicate Esters	-	-	-	-	-	-	B	-	D	A	A	-	-	C	-	A	A	-	B	-	A	-	B	D	B
Silicone	B	A	A	A	A	A	A	A	A	-	A	A	-	A	-	-	-	A	A	A	A	A	-	-	-
Silicone Grease	-	-	-	-	-	A	A	-	A	-	A	A	-	A	-	A	A	-	A	-	A	-	B	A	A
Silicone Oil	B	A	B	A	A	A	A	A	A	A	A	A	A	B	-	A	A	A	D	A	A	A	C	A	A

CHEMICAL COMPATIBILITY

CHEMICALS	METALS					PLASTICS, ELASTOMERS & LEATHER																			
A: Excellent, B: Good, C: Fair to Poor, D: Not recommended - No Data	Aluminum	Carbon Steel	Cast/Ductile Iron	304 Stainless Steel	316 Stainless Steel	Acetal	Buna	CSM (Hypalon)	EPR, EPDM	Fluorocarbon	Fluoroelastomer (FKM)	Geolast (Buna & Polypropylene)	Hastelloy C	TPE	Leather	Nitrile (TS)	Nitrile (TPE)	Nylon	Polychloroprene	Polypropylene	PTFE	PVDF	Santoprene (EPDM & Polypropylene)	UHMWPE	Urethane
Silicone Tetrachloride Wet	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Silver Bromide	D	D	D	D	D	C	-	-	-	-	-	-	A	-	-	-	-	-	-	-	A	-	-	-	-
Silver Chloride	D	D	D	D	D	-	-	-	-	-	-	-	-	-	-	-	D	-	-	B	A	-	-	-	-
Silver Cyanide	D	-	A	A	A	-	-	-	A	-	A	-	A	-	-	A	A	-	A	A	A	A	-	A	D
Silver Nitrate	D	C	D	B	B	A	C	A	A	A	A	B	A	D	-	B	C	A	A	B	A	A	A	A	A
Skydol 7000	-	-	-	A	-	A	-	-	A	-	B	-	A	D	-	D	-	-	D	-	A	-	B	-	D
Skydrol	-	-	-	-	-	-	D	-	A	-	D	-	-	B	-	-	-	C	D	-	A	-	A	-	-
Skydrol 500	-	-	-	A	-	A	D	-	A	-	D	D	A	C	-	D	D	C	D	-	A	-	B	-	D
Skydrol 7000	-	-	-	-	-	-	D	-	A	-	B	-	-	D	-	-	-	C	D	-	A	-	-	-	-
Skydrol Hydraulic Fluid	-	-	-	A	-	-	D	-	A	C	-	D	A	-	-	-	-	C	D	-	A	-	B	-	-
Soap Solutions	D	A	D	A	A	A	A	A	A	A	A	A	A	A	-	A	A	A	B	A	A	A	A	A	A
Soda Ash	D	B	B	A	A	A	A	A	A	A	A	-	A	B	-	-	-	B	A	A	A	A	A	-	-
Sodium Acetate	B	B	D	B	B	B	C	-	A	D	D	A	A	-	-	-	-	B	C	A	A	A	A	A	-
Sodium Acid Sulfate	D	-	C	D	B	-	-	-	A	-	A	-	-	-	-	A	A	-	A	A	A	-	A	A	A
Sodium Aluminate	C	A	A	A	A	B	A	A	A	A	A	A	B	-	-	A	A	A	A	A	A	A	A	-	-
Sodium Aluminum Sulfate	D	-	D	D	A	-	-	-	A	-	A	-	B	-	-	A	A	-	A	-	A	-	A	-	A
Sodium Benzoate	A	-	-	-	-	-	B	B	A	-	A	B	A	-	-	-	-	B	A	A	A	A	-	A	-
Sodium Bicarbonate	D	C	C	A	B	D	A	A	A	A	A	A	B	B	-	A	A	B	A	A	A	A	A	A	A
Sodium Bichromate	C	-	C	B	B	D	-	-	A	-	A	-	C	-	-	A	B	D	A	A	A	A	A	A	A
Sodium Bisulfate	D	D	D	D	C	B	B	A	A	-	A	A	B	D	-	A	A	C	A	A	A	A	A	A	A
Sodium Bisulfite	D	D	D	C	B	D	C	A	A	A	A	A	B	D	-	A	A	D	A	A	A	A	A	A	A
Sodium Borate	C	-	C	C	B	C	A	-	A	A	A	-	A	B	-	-	-	A	A	A	A	A	A	A	-
Sodium Borate (Borax)	C	-	B	B	B	A	A	A	A	-	A	-	A	B	-	A	A	A	A	A	A	A	A	A	A
Sodium Bromide	D	C	C	C	C	A	-	B	A	-	A	-	B	-	-	-	-	B	A	A	A	A	A	A	-
Sodium Carbonate	D	B	B	A	A	A	A	A	A	-	A	A	A	B	-	A	A	B	A	A	A	A	A	A	A
Sodium Chlorate	C	-	B	B	B	B	B	A	A	A	A	A	B	-	-	A	A	D	B	A	A	A	A	A	A
Sodium Chloride	C	D	D	C	C	B	A	A	A	A	A	A	A	A	-	A	A	A	A	A	A	A	A	A	A
Sodium Chromate	D	A	B	B	B	D	A	C	-	A	A	A	A	-	-	A	A	D	A	A	A	A	A	-	-
Sodium Citrate	-	-	-	B	-	-	-	-	-	-	-	-	B	-	-	-	D	-	-	-	A	-	A	A	-
Sodium Cyanide	D	A	B	A	B	C	A	A	A	A	A	A	A	B	-	A	A	B	A	A	A	A	A	A	A
Sodium Dichromate	-	-	-	-	-	-	-	-	A	A	B	-	-	B	-	A	A	D	B	A	A	A	A	A	B
Sodium Ferrocyanide	A	-	D	B	B	A	A	B	A	-	A	A	B	-	-	A	A	-	A	A	A	A	A	A	-
Sodium Fluoride	B	C	C	D	D	-	A	B	A	A	A	A	B	-	-	A	A	B	A	A	A	A	A	A	B
Sodium Hexametaphosphate	C	-	B	B	-	-	B	-	B	A	-	-	A	-	-	-	-	-	B	-	A	-	-	-	-

CHEMICAL COMPATIBILITY

CHEMICALS	METALS					PLASTICS, ELASTOMERS & LEATHER																			
A: Excellent, B: Good, C: Fair to Poor, D: Not recommended - No Data	Aluminum	Carbon Steel	Cast/Ductile Iron	304 Stainless Steel	316 Stainless Steel	Acetal	Buna	CSM (Hypalon)	EPR, EPDM	Fluorocarbon	Fluoroelastomer (FKM)	Geolast (Buna & Polypropylene)	Hastelloy C	TPE	Leather	Nitrile (TS)	Nitrile (TPE)	Nylon	Polychloroprene	Polypropylene	PTFE	PVDF	Santoprene (EPDM & Polypropylene)	UHMWPE	Urethane
Sodium Hydrosulfate	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	A	-
Sodium Hydrosulfite	A	-	-	-	-	-	C	B	B	-	A	D	A	-	-	-	-	A	B	-	A	-	-	-	-
Sodium Hydroxide	D	-	B	A	-	D	B	-	A	D	-	-	B	-	-	-	-	C	B	A	A	A	A	A	-
Sodium Hydroxide (< 10%) (Caustic Soda)	-	-	-	-	-	-	-	-	-	-	-	A	-	-	-	-	-	-	-	-	-	-	-	-	-
Sodium Hydroxide (< 50%) (Caustic Soda)	-	-	-	-	-	-	-	-	-	-	-	D	-	-	-	-	-	-	-	-	-	-	-	-	-
Sodium Hydroxide (20%)	D	A	B	B	B	A	A	A	B	-	C	-	B	B	-	A	B	A	B	A	A	A	A	A	B
Sodium Hydroxide (50%)	D	D	D	B	B	A	D	A	B	-	D	-	C	C	-	D	D	A	C	A	A	C	A	A	B
Sodium Hydroxide (80%)	D	D	D	D	D	D	D	A	B	-	D	-	B	D	-	D	D	C	C	A	A	C	-	A	B
Sodium Hydroxide (Caustic Soda-Lye)	A	-	-	A	A	D	B	-	A	-	B	-	-	-	-	-	-	C	A	A	A	D	-	A	-
Sodium Hypochlorite	D	D	D	D	A	D	D	-	C	B	D	B	B	-	-	-	-	D	B	D	A	B	A	A	-
Sodium Hypochlorite (<20%)	D	D	D	C	C	D	C	A	B	-	C	-	A	C	-	D	D	D	D	B	A	A	B	A	D
Sodium Hypochlorite (100%)	D	D	D	D	D	D	D	B	B	-	A	-	B	D	-	-	-	D	C	B	A	A	-	-	-
Sodium Hyposulfate	D	D	D	A	A	-	-	-	-	-	-	-	-	-	-	-	-	-	C	-	A	-	-	-	-
Sodium Hyposulfite	D	D	D	D	D	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	A	A	-	-	-
Sodium Metaphosphate	D	D	D	D	D	B	B	B	A	A	A	A	A	-	-	-	-	A	C	D	A	A	A	A	-
Sodium Metasilicate	D	A	A	A	A	D	A	B	A	A	A	A	A	-	-	A	A	-	A	A	A	A	A	-	B
Sodium Nitrate	B	B	B	B	B	A	C	A	A	A	A	D	B	B	-	A	C	B	B	A	A	A	A	A	B
Sodium Nitrate Moten	B	-	D	B	A	D	-	-	-	-	-	-	-	-	-	-	-	D	-	D	D	D	-	D	-
Sodium Nitrite	A	-	A	A	-	-	A	-	-	A	-	-	A	-	-	-	-	-	D	A	A	A	-	A	-
Sodium Perborate	D	C	C	B	C	B	C	B	A	A	A	B	B	B	-	B	B	B	B	A	A	A	A	A	B
Sodium Peroxide	D	C	D	B	A	D	C	B	B	A	A	B	B	B	-	B	B	D	B	B	A	A	B	A	D
Sodium Phosphate	D	-	B	B	B	A	B	-	A	-	A	-	A	C	-	A	A	A	B	A	A	A	A	A	A
Sodium Phosphate (Dibasic)	D	-	D	A	-	A	-	-	A	-	A	-	-	B	-	A	B	-	B	A	A	A	A	-	A
Sodium Phosphate (Mono)	D	-	D	A	-	A	-	-	A	-	A	-	-	B	-	A	A	-	C	A	A	A	A	-	A
Sodium Phosphate (Tribasic)	D	-	D	B	-	A	B	-	A	A	A	B	A	B	-	A	B	B	C	A	A	A	A	A	A
Sodium Polyphosphate	D	D	D	B	B	B	A	B	A	-	A	A	A	-	-	-	-	A	D	A	A	A	-	-	-
Sodium Silicate (Water Glass)	C	B	B	A	B	C	A	A	A	A	A	A	B	B	-	A	A	A	A	A	A	A	A	A	B
Sodium Sulfate (Salt Cake)	B	B	B	B	B	B	A	A	A	A	A	A	B	B	-	A	A	A	B	A	A	A	A	A	A
Sodium Sulfide	D	C	D	B	D	B	A	A	A	A	A	A	B	B	-	A	A	C	A	B	A	A	A	A	A
Sodium Sulfide - Saturated	D	-	B	B	-	A	-	-	B	-	B	-	A	B	-	A	A	-	A	A	A	A	A	A	A
Sodium Sulfite	D	A	D	D	B	A	A	A	A	A	A	A	B	B	-	A	A	D	A	B	A	A	A	A	A
Sodium Tetraborate	C	-	B	A	A	C	A	A	A	B	A	A	B	B	-	A	B	B	B	A	A	A	A	A	B
Sodium Tetraphosphate	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	A	-	-
Sodium Thiosulfate	D	C	D	B	B	C	B	A	A	A	A	A	B	-	-	-	A	B	A	A	A	A	A	A	-

CHEMICAL COMPATIBILITY

CHEMICALS	METALS					PLASTICS, ELASTOMERS & LEATHER																			
A: Excellent, B: Good, C: Fair to Poor, D: Not recommended - No Data	Aluminum	Carbon Steel	Cast/Ductile Iron	304 Stainless Steel	316 Stainless Steel	Acetal	Buna	CSM (Hypalon)	EPR, EPDM	Fluorocarbon	Fluoroelastomer (FKM)	Geolast (Buna & Polypropylene)	Hastelloy C	TPE	Leather	Nitrile (TS)	Nitrile (TPE)	Nylon	Polychloroprene	Polypropylene	PTFE	PVDF	Santoprene (EPDM & Polypropylene)	UHMWPE	Urethane
Sodium Thiosulphate	B	-	C	-	A	-	B	-	-	-	A	-	A	-	-	-	-	B	A	A	A	A	-	-	-
Sodium Triphosphate	B	-	C	A	-	C	-	-	A	-	A	-	A	B	-	A	-	-	A	A	A	A	A	-	A
Sorghum	A	A	A	A	A	A	A	-	A	-	A	A	A	-	-	A	A	A	A	A	A	-	A	A	-
Soy Sauce	A	D	D	D	D	A	A	-	A	-	A	-	D	-	-	A	A	A	A	A	A	A	-	A	-
Soybean Oil	B	A	A	A	A	B	A	C	D	A	A	A	A	B	-	A	A	B	D	B	A	B	C	A	B
Spelly, Solvent B,C,E	-	-	-	-	-	-	-	-	D	-	A	-	-	-	-	A	-	-	D	-	A	-	-	-	-
Spry	-	-	-	-	-	-	-	-	B	-	A	-	-	-	-	A	-	-	B	-	-	-	-	A	A
SR-10 Fuel	-	-	-	-	-	-	-	-	D	-	A	-	-	-	-	A	-	-	D	-	-	-	-	A	B
SR-6 Fuel	-	-	-	-	-	-	-	-	D	-	A	-	-	-	-	B	-	-	D	-	-	-	-	A	B
Stannic Chloride	D	D	D	D	D	C	A	C	A	-	A	-	B	B	-	A	A	D	D	A	A	A	A	A	B
Stannic Chloride (Tin Chloride)	D	-	C	A	-	-	A	-	B	A	-	A	B	-	-	-	-	B	B	A	A	A	A	-	-
Stannic Fluoborate	D	D	D	-	A	C	A	-	-	-	A	A	-	-	-	-	-	-	A	-	-	-	-	-	-
Stannous Chloride	D	A	B	C	A	-	A	A	C	A	A	A	B	C	-	A	A	D	A	A	A	A	B	-	C
Starch	B	C	D	B	B	B	A	A	B	C	A	A	A	B	A	A	A	A	A	A	A	-	A	A	A
Steam	-	-	-	-	-	A	D	-	A	-	D	-	-	D	-	-	-	A	C	A	A	A	-	A	-
Steam 220°F-300°F	A	-	A	-	A	-	D	-	-	-	D	-	-	-	-	-	-	D	D	-	D	-	-	-	-
Steam To 200°F	A	-	A	-	A	-	C	-	-	-	D	-	-	-	-	-	-	D	C	-	D	-	-	-	-
Stearic Acid	C	C	C	B	B	C	C	C	B	A	A	B	B	C	-	B	B	A	B	B	A	A	B	A	A
Stoddard Solvent	A	A	A	A	A	A	B	-	D	-	A	B	D	C	A	A	B	A	D	C	A	D	D	-	A
Styrene	A	A	B	A	A	A	D	D	D	A	B	D	D	D	-	D	D	B	D	D	A	B	C	A	D
Sucrose Solution	A	-	B	A	-	A	A	-	A	A	A	-	A	B	-	A	A	A	B	-	A	-	A	A	A
Sufuric Acid (98%) (66° Baume)	-	-	-	-	-	-	-	-	-	-	-	D	-	-	-	-	-	-	-	-	-	-	-	-	-
Sugar (Liquids)	A	-	A	A	A	B	A	A	A	-	A	A	A	B	A	A	A	A	B	A	A	A	A	A	D
Sulfamic Acid	A	-	-	D	-	D	B	-	-	-	-	-	D	-	-	-	-	D	A	-	A	-	-	-	-
Sulfate (Liquors)	D	C	C	B	B	D	A	B	A	-	A	-	B	-	-	-	-	B	B	A	A	A	-	-	-
Sulfate Liquor Black	B	-	C	B	B	D	-	-	A	-	A	-	A	D	-	B	B	C	A	A	A	A	A	A	A
Sulfate Liquor Green	B	-	C	A	-	D	-	-	A	-	A	-	A	D	-	B	B	B	A	A	A	A	A	A	A
Sulfate Liquors	B	-	C	-	C	-	-	-	-	-	-	-	A	-	-	-	-	B	C	A	-	A	-	-	-
Sulfinol	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	A	A	-	-	-
Sulfite Liquor	D	-	D	B	B	A	B	-	B	B	A	-	A	-	-	B	B	-	B	B	A	-	A	A	C
Sulfolane	D	D	D	D	B	-	-	-	-	-	-	-	-	-	-	-	-	A	-	-	A	-	-	-	-
Sulfur	D	D	D	D	D	A	D	-	D	A	A	-	B	-	-	B	B	A	B	B	A	A	A	A	B
Sulfur Chloride	D	D	D	D	D	D	D	-	D	A	A	D	B	C	-	D	D	A	D	D	A	A	D	C	C
Sulfur Dioxide	D	-	D	D	A	D	D	C	B	A	D	D	C	D	-	D	D	C	B	A	A	A	A	A	C

CHEMICAL COMPATIBILITY

CHEMICALS	METALS					PLASTICS, ELASTOMERS & LEATHER																			
A: Excellent, B: Good, C: Fair to Poor, D: Not recommended - No Data	Aluminum	Carbon Steel	Cast/Ductile Iron	304 Stainless Steel	316 Stainless Steel	Acetal	Buna	CSM (Hypalon)	EPR, EPDM	Fluorocarbon	Fluoroelastomer (FKM)	Geolast (Buna & Polypropylene)	Hastelloy C	TPE	Leather	Nitrile (TS)	Nitrile (TPE)	Nylon	Polychloroprene	Polypropylene	PTFE	PVDF	Santoprene (EPDM & Polypropylene)	UHMWPE	Urethane
Sulfur Dioxide (dry)	B	A	A	D	A	B	D	-	A	-	A	-	B	C	-	-	-	B	D	A	A	A	-	-	-
Sulfur Dioxide Gas Dry	D	-	B	A	A	B	D	-	A	-	A	-	-	D	-	-	-	B	D	C	A	A	-	A	-
Sulfur Dioxide Gas Wet	-	-	-	-	-	C	D	-	A	-	A	-	-	D	-	-	-	C	B	D	A	A	-	A	-
Sulfur Hexafluoride	D	-	D	-	-	D	B	B	B	A	C	B	D	B	-	B	C	B	B	-	A	-	B	A	B
Sulfur Molten	-	-	-	-	-	D	-	-	-	-	-	-	-	-	-	-	-	D	-	D	A	-	-	D	-
Sulfur Trioxide	D	B	D	B	C	-	D	D	C	A	A	D	B	D	-	D	D	D	D	D	A	D	D	C	C
Sulfur Trioxide (dry)	A	A	A	D	C	D	D	-	C	-	A	-	B	-	-	-	-	A	D	D	A	D	-	-	-
Sulfuric Acid - (To 75%)	D	-	D	C	-	D	-	-	C	-	A	-	A	B	-	D	D	-	D	A	A	A	A	-	D
Sulfuric Acid - 10%	D	-	D	A	-	D	B	-	A	A	A	-	A	D	-	-	-	D	A	A	A	A	A	D	-
Sulfuric Acid - 25%	D	-	D	B	-	D	C	-	B	A	A	-	A	D	-	-	-	D	B	A	A	A	A	D	-
Sulfuric Acid - 50%	D	-	D	D	-	D	C	-	B	A	A	-	A	D	-	-	-	D	B	A	A	A	A	D	-
Sulfuric Acid - 60%	D	-	D	D	-	D	D	-	C	A	A	-	A	D	-	-	-	D	C	A	A	A	A	D	-
Sulfuric Acid - 75%	D	-	C	C	-	D	D	-	C	A	A	-	A	D	-	-	-	D	D	A	A	A	C	D	-
Sulfuric Acid - 95%	D	-	B	A	-	D	D	-	C	A	A	-	A	D	-	-	-	D	D	D	A	A	C	D	-
Sulfuric Acid - Concentrated	-	-	-	-	-	D	D	-	D	-	A	-	-	D	-	-	-	D	D	B	A	A	D	D	-
Sulfuric Acid (<10%)	D	C	D	D	C	D	D	A	A	-	A	B	B	A	-	D	D	C	D	A	A	A	A	A	D
Sulfuric Acid (10-75%)	D	D	D	D	D	D	D	B	B	-	A	D	B	-	-	-	-	D	D	A	A	A	-	-	-
Sulfuric Acid (20% Oleum)	D	-	D	-	-	-	D	-	-	-	B	-	-	-	-	-	-	D	D	D	A	-	-	-	-
Sulfuric Acid (75-100%)	D	D	D	C	D	-	C	C	B	-	A	-	B	C	-	-	-	D	D	C	A	A	-	-	-
Sulfuric Acid (cold concentrated)	B	D	D	C	B	-	D	C	C	-	B	-	A	B	-	-	-	D	D	A	A	A	-	-	-
Sulfuric Acid (Conc.)	-	-	D	B	-	D	D	-	C	A	-	-	B	-	-	-	-	D	D	A	A	A	B	-	-
Sulfuric Acid (Concentrated To 98%)	D	-	D	-	B	-	D	-	-	-	A	-	-	-	-	-	-	D	D	C	A	A	-	-	-
Sulfuric Acid (Concentrated)	D	-	D	C	-	D	-	-	C	-	A	-	B	C	-	D	D	-	D	C	A	A	B	-	D
Sulfuric Acid (Dilute)	D	-	D	-	B	-	D	-	-	-	A	-	-	-	-	-	-	C	C	A	A	A	-	-	-
Sulfuric Acid (Fuming)	C	-	D	C	-	D	D	-	D	-	A	-	D	D	-	D	D	D	D	D	A	D	D	D	D
Sulfuric Acid (hot concentrated)	D	D	D	D	C	-	D	D	D	-	A	-	D	-	-	-	-	D	D	D	A	C	-	-	-
Sulfuric Acid Aerated	-	-	-	-	-	D	-	-	-	-	-	-	-	-	-	-	-	D	-	C	A	D	-	D	-
Sulfuric Acid Air Free	-	-	-	-	-	D	-	-	-	-	-	-	-	D	-	-	-	D	-	C	A	D	A	D	-
Sulfuric Acid Boiling	-	-	-	-	-	D	-	-	-	-	-	-	-	-	-	-	-	D	-	D	A	D	-	D	-
Sulfuric Acid -Dilute	D	-	D	B	-	D	-	-	A	-	A	-	A	A	-	D	D	-	C	A	A	A	A	A	C
Sulfuric Acid Fuming Oleum	B	D	D	B	B	D	D	-	D	-	A	-	-	D	-	-	-	D	D	D	A	D	-	D	-
Sulfurous Acid	D	D	D	D	B	D	C	A	B	-	A	A	B	C	-	-	-	D	C	A	A	A	-	A	-
Sulfurous Acid	B	-	D	B	-	D	B	-	C	A	-	-	B	-	-	-	-	D	D	A	A	A	A	A	-
Sulfuryl Chloride	-	-	-	-	-	A	-	-	-	-	-	-	-	-	-	-	-	-	-	-	A	-	-	-	-

CHEMICAL COMPATIBILITY

CHEMICALS	METALS					PLASTICS, ELASTOMERS & LEATHER																			
A: Excellent, B: Good, C: Fair to Poor, D: Not recommended - No Data	Aluminum	Carbon Steel	Cast/Ductile Iron	304 Stainless Steel	316 Stainless Steel	Acetal	Buna	CSM (Hypalon)	EPR, EPDM	Fluorocarbon	Fluoroelastomer (FKM)	Geolast (Buna & Polypropylene)	Hastelloy C	TPE	Leather	Nitrile (TS)	Nitrile (TPE)	Nylon	Polychloroprene	Polypropylene	PTFE	PVDF	Santoprene (EPDM & Polypropylene)	UHMWPE	Urethane
Sulphurous Acid	D	-	D	B	-	D	-	-	D	-	D	-	B	D	-	D	D	-	D	A	A	A	-	A	D
Sunsafe (Fire Resist. Hydr. Fluid)	-	-	-	-	-	-	-	-	D	-	A	-	-	A	-	A	B	-	B	-	A	-	D	-	D
Syrup	A	-	-	A	A	A	A	-	A	-	A	-	-	-	-	A	A	-	B	A	-	-	A	-	-
Tall Oil	D	-	C	D	B	A	A	-	D	-	A	-	B	-	-	A	A	-	D	B	A	A	D	A	A
Tallow	A	-	C	A	A	C	A	C	A	A	A	B	-	-	-	A	B	A	D	B	A	-	B	A	A
Tannic Acid	D	C	D	B	A	D	C	A	C	A	A	D	B	B	-	A	A	D	B	A	A	B	A	A	A
Tannin	-	-	-	-	-	A	A	-	-	-	-	-	-	-	-	-	-	A	A	-	A	-	-	-	-
Tanning Liquors	C	-	-	A	A	D	C	B	B	-	A	B	B	-	-	A	-	A	D	B	A	A	A	A	-
Tar And Tar Oil	A	A	C	B	A	A	-	-	C	-	A	-	-	C	-	-	-	C	C	A	A	A	-	C	D
Tar, Bituminous	A	A	B	A	B	A	B	-	D	A	A	-	A	B	-	B	B	C	D	A	A	-	B	-	B
Tartaric Acid	D	D	D	C	C	D	B	A	C	A	A	A	B	C	-	A	B	B	B	A	A	B	A	A	A
Terpene Monocyclic	A	-	D	-	-	-	-	-	D	-	A	-	-	-	-	C	-	-	A	-	A	-	-	-	-
Terpenes C10	A	-	D	-	-	-	C	-	D	A	-	-	-	-	-	-	-	-	D	-	A	-	-	A	-
Terpineol	A	-	A	A	A	-	C	-	C	A	A	D	A	-	-	B	D	-	D	D	A	B	B	-	B
Terta Bromoethane	D	-	-	-	-	-	-	-	D	-	A	-	-	-	-	D	D	-	D	D	A	-	D	-	-
Tertiary Butyl Alcohol	-	-	-	-	-	A	A	-	B	B	B	-	-	B	-	A	-	-	A	B	B	-	D	-	B
Tertiary Butyl Catechol	C	-	B	B	B	-	D	-	-	A	A	-	-	-	-	-	-	-	B	-	A	-	B	-	-
Tertiary Butyl Mercaptan	-	-	-	-	-	-	D	-	A	A	A	-	-	D	-	-	B	-	D	B	D	-	B	-	D
Tetra Bromomethane	D	-	-	-	-	-	D	-	-	A	A	D	-	-	-	-	-	-	D	D	A	-	D	-	-
Tetra Ethyl Lead	A	-	A	A	A	-	B	-	D	-	A	-	-	-	-	-	-	-	B	D	A	A	-	-	-
Tetrabutyl Titanate	-	-	-	-	-	-	B	-	B	A	A	-	-	-	-	B	-	-	B	-	A	-	B	-	-
Tetrachloroacetic Acid	D	-	D	D	D	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	A	B	-	-	-
Tetrachlorodifluoroethane	-	-	-	-	-	-	-	-	D	-	-	-	-	-	-	B	D	-	D	-	A	-	D	-	-
Tetrachlorodifluoroethane	-	-	-	-	-	-	D	-	-	-	-	-	-	-	-	-	-	-	D	-	A	-	-	-	-
Tetrachloroethane	D	A	B	C	A	A	D	D	D	A	A	D	A	-	-	-	-	C	D	D	A	A	D	-	-
Tetrachloroethylene	D	A	A	A	B	A	D	D	D	-	A	D	-	-	-	D	D	D	D	D	A	A	D	B	D
Tetraethyl Lead	B	-	A	A	-	-	B	-	D	B	A	-	-	B	-	B	B	-	D	A	A	A	C	C	B
Tetraethylene Glycol	-	-	-	-	-	-	A	-	-	A	A	-	-	-	-	A	-	-	-	-	A	-	-	-	-
Tetrahydrofuran	D	-	A	A	A	A	D	D	D	D	D	D	A	C	-	D	D	A	D	C	A	C	D	B	D
Tetrahydronaphthalene	A	-	A	A	-	-	D	-	D	A	-	-	A	-	-	-	-	A	D	D	A	-	-	D	-
Tetralin	A	-	A	A	A	-	D	-	D	-	A	-	A	-	-	D	D	-	D	D	A	-	C	-	D
Tetraphosphoric Acid	D	-	D	B	B	D	-	-	-	-	-	-	-	-	-	-	-	B	-	-	A	A	-	-	-
Thiokol TP-90B	-	-	-	-	-	-	-	-	A	-	A	-	-	-	-	D	-	-	B	-	-	-	-	-	-
Thionyl Chloride	D	-	D	D	D	B	D	-	D	B	B	D	A	-	-	-	-	D	D	D	A	D	B	D	-

CHEMICAL COMPATIBILITY

CHEMICALS	METALS					PLASTICS, ELASTOMERS & LEATHER																			
A: Excellent, B: Good, C: Fair to Poor, D: Not recommended - No Data	Aluminum	Carbon Steel	Cast/Ductile Iron	304 Stainless Steel	316 Stainless Steel	Acetal	Buna	CSM (Hypalon)	EPR, EPDM	Fluorocarbon	Fluoroelastomer (FKM)	Geolast (Buna & Polypropylene)	Hastelloy C	TPE	Leather	Nitrile (TS)	Nitrile (TPE)	Nylon	Polychloroprene	Polypropylene	PTFE	PVDF	Santoprene (EPDM & Polypropylene)	UHMWPE	Urethane
Thiophene	-	-	-	-	-	-	D	-	D	C	C	-	-	-	-	D	D	-	D	-	A	-	D	-	-
Tin Molten	D	-	-	C	C	D	D	-	D	-	D	-	-	-	D	-	-	D	D	D	D	D	-	D	-
Tin Salts	D	-	-	-	D	-	A	A	B	-	A	A	C	-	-	-	-	-	-	A	A	A	-	-	-
Tin Tetrachloride	D	-	D	D	D	-	-	-	-	-	-	-	A	-	-	A	A	D	D	A	A	A	-	-	B
Titanium Tetrachloride	D	-	B	B	B	-	C	-	D	A	A	D	B	-	-	B	C	A	D	D	A	B	D	C	D
Toluene	A	-	A	-	A	-	C	-	-	-	A	-	A	-	-	-	-	A	D	D	A	A	-	-	-
Toluene (Toluol)	A	A	A	A	A	C	D	D	D	B	C	D	A	C	-	D	C	A	D	D	A	A	D	D	D
Toluene At 70°	A	-	A	A	A	C	D	-	D	-	A	-	-	C	-	-	-	A	D	D	A	B	D	CA	-
Toluene Diisocyanate	-	-	-	-	-	C	-	-	A	-	C	B	-	B	-	D	-	-	D	-	A	-	B	-	-
Toluene, Toluol	A	-	A	-	A	-	D	-	-	-	A	-	-	-	-	-	-	A	D	B	A	A	-	-	-
Toluidine	A	-	A	A	-	-	D	-	-	B	B	D	A	-	-	D	-	-	-	-	A	-	-	-	-
Tomato Juice	A	-	D	A	A	B	A	-	A	-	A	A	-	-	-	-	-	A	A	A	A	A	-	A	-
Tomato Pulp & Juice	B	-	-	A	A	B	A	-	A	-	A	-	A	-	-	A	A	B	A	A	A	A	A	A	A
Toothpaste	-	-	D	A	-	-	A	-	-	A	-	-	A	-	-	-	-	-	C	-	A	-	-	-	-
TP-95	-	-	-	-	-	-	-	-	A	-	A	-	-	-	-	D	-	-	B	-	-	-	-	-	-
Transformer Oil	A	-	B	A	A	C	B	-	D	A	A	B	A	-	-	A	B	A	C	D	A	A	D	A	A
Transmission Fluid (Type A)	A	A	A	A	A	A	A	-	D	A	A	A	A	B	-	A	-	-	C	-	A	-	C	-	A
Triacetin	B	-	-	-	-	-	A	-	A	D	D	A	-	-	-	B	-	-	B	-	A	-	A	-	D
Triaryl Phosphate	-	-	-	-	-	-	D	-	A	A	A	-	-	-	-	D	D	A	D	B	A	A	-	A	D
Tributoxy Ethyl Phosphate	-	-	-	-	-	-	D	-	-	-	B	-	-	-	-	-	-	-	D	-	A	-	-	-	-
Tributoxyl Ethyl Phosphate	-	-	-	-	-	-	-	-	A	-	A	-	-	-	-	D	-	-	D	-	A	-	B	A	D
Tributyl Citrate	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	C	A	-	-	-	-
Tributyl Mercaptan	-	-	-	-	-	-	D	-	D	-	A	-	-	-	-	D	-	-	D	-	A	-	B	A	-
Tributyl Phosphate	A	-	B	A	A	-	D	-	C	D	D	D	-	C	-	D	D	B	D	D	A	A	B	D	D
Tributyoxyl Ethyl Phosphate	-	-	-	-	-	-	D	-	A	B	-	-	-	-	-	-	-	-	D	-	A	-	B	-	-
Trichloroacetic Acid	D	-	D	D	-	D	-	-	B	-	D	-	B	D	-	D	D	-	D	B	A	A	B	-	D
Trichlorethylene	D	-	C	-	A	-	D	-	-	-	A	-	A	-	-	-	-	A	D	B	A	A	-	-	-
Trichloroacetic Acid	D	D	D	D	D	-	C	-	C	B	C	D	B	D	-	-	-	D	D	B	A	B	B	C	-
Trichlorobenzenes	D	-	A	A	-	-	D	-	-	B	A	D	B	-	-	D	-	-	D	-	A	-	-	-	D
Trichloroethane	D	B	B	B	B	A	D	D	D	B	A	D	A	D	-	D	D	D	D	D	A	B	D	D	D
Trichloroethylene	D	C	C	B	B	D	D	D	D	C	A	D	A	D	-	-	-	D	D	D	A	D	D	CA	-
Trichloroethylene (Triad)	B	-	B	B	-	B	-	-	D	-	C	-	B	D	-	D	D	-	D	C	A	A	D	-	D
Trichloromonofluoroethane (Freon 17)	A	-	-	A	A	-	-	-	-	-	-	-	A	-	-	D	D	A	D	-	A	-	-	-	-
Trichloropropane	D	A	A	A	A	A	D	-	-	B	A	D	A	-	-	A	D	-	A	D	A	-	D	-	A

CHEMICAL COMPATIBILITY

CHEMICALS	METALS					PLASTICS, ELASTOMERS & LEATHER																			
A: Excellent, B: Good, C: Fair to Poor, D: Not recommended - No Data	Aluminum	Carbon Steel	Cast/Ductile Iron	304 Stainless Steel	316 Stainless Steel	Acetal	Buna	CSM (Hypalon)	EPR, EPDM	Fluorocarbon	Fluoroelastomer (FKM)	Geolast (Buna & Polypropylene)	Hastelloy C	TPE	Leather	Nitrile (TS)	Nitrile (TPE)	Nylon	Polychloroprene	Polypropylene	PTFE	PVDF	Santoprene (EPDM & Polypropylene)	UHMWPE	Urethane
Trichlorotrifluoroethane (Freon 113)	A	-	D	A	A	-	-	-	D	-	A	-	A	A	-	A	A	A	A	A	A	A	D	-	B
Tricresyl Alcohol (Tridecanol)	-	-	-	-	-	-	A	-	-	B	-	-	-	-	-	-	-	-	-	-	A	-	-	-	-
Tricresyl Phosphate	D	-	A	B	B	C	D	-	A	C	A	-	A	C	-	D	D	A	C	B	A	D	B	A	D
Tricresylphosphate	D	B	B	B	B	C	D	D	A	-	B	D	A	-	-	-	-	A	D	B	A	D	-	-	-
Tridecyl Alcohol (Tridecanol)	-	-	-	-	-	-	-	-	-	-	B	-	-	-	-	A	-	-	-	-	A	-	-	-	B
Triethanol Amine	B	-	A	A	A	B	D	-	B	C	D	D	A	C	-	C	D	A	B	A	A	D	A	A	D
Triethanolamine	B	-	A	A	A	B	B	-	A	-	D	-	-	D	-	-	-	A	A	D	A	D	-	A	-
Triethyl Aluminum	-	-	-	-	-	-	D	-	-	B	B	-	-	D	-	D	-	-	D	-	A	-	B	-	-
Triethyl Amine	-	-	A	A	-	A	A	-	A	-	A	-	A	-	-	A	D	-	B	C	A	A	D	-	D
Triethyl Borane	-	-	-	-	-	-	D	-	-	A	A	-	-	-	-	D	-	-	D	-	A	-	B	-	-
Triethyl Phosphate	A	-	A	A	A	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	A	D	-	-	-
Triethylamine	-	A	A	A	A	D	C	-	A	-	D	A	-	-	-	-	-	A	B	D	A	B	-	-	-
Triethylene Glycol	-	-	-	-	-	-	A	-	-	A	A	-	-	-	-	A	A	A	-	A	A	-	-	A	-
Trifluoroethane	-	-	-	-	-	-	-	-	D	-	A	-	-	-	-	D	-	-	D	-	A	-	-	-	D
Trimethylene Glycol	A	-	A	A	-	-	A	-	A	A	A	A	A	-	-	A	-	-	-	-	A	-	-	-	-
Trinitrotoluene (TNT)	-	-	-	-	-	-	D	-	D	C	C	-	-	-	-	D	-	-	B	-	A	-	A	-	-
Trioctyl Phosphate	-	-	-	-	-	-	D	-	A	B	B	-	-	-	-	D	-	-	D	-	A	-	B	-	D
Triphenyl Phosphate	-	-	-	-	-	-	-	-	-	-	C	-	-	-	-	D	D	-	-	-	A	-	-	-	-
Triphenyl Phosphite	A	-	C	A	A	-	-	-	-	-	-	-	-	-	-	-	-	A	-	-	A	-	-	-	-
Tripropylene Glycol	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	A	A	-	-	B	-
Trisodium Phosphate	D	-	A	B	B	D	A	-	A	-	A	A	A	A	-	A	A	B	A	A	A	A	A	A	B
Tung Oil	A	A	B	A	B	A	A	-	D	-	B	A	A	B	-	A	D	-	B	A	A	A	B	A	C
Turbine Oil	A	A	A	A	A	A	B	D	D	-	A	B	-	-	-	B	-	A	D	B	A	A	-	-	A
Turbine Oil #15 (Mil-L-7808A)	-	-	-	-	-	-	-	-	D	-	A	-	-	-	-	B	-	-	D	-	A	-	-	-	D
Turbo Oil #35	-	-	-	-	-	-	-	-	D	-	A	-	-	-	-	A	-	-	B	-	-	-	-	-	A
Turpentine	A	-	B	A	A	A	A	D	D	A	A	A	B	B	-	A	B	B	D	D	A	A	D	D	D
Type 1 Fuel (Mil-S-3136)	-	-	-	-	-	-	-	-	D	-	A	-	-	A	-	A	-	-	A	-	A	-	D	-	B
Type 11 Fuel (Mil-S-3136)	-	-	-	-	-	-	-	-	D	-	A	-	-	-	-	B	-	-	D	-	A	-	D	-	B
Type 111 (Fuel Mil-S-3136)	-	-	-	-	-	-	-	-	D	-	A	-	-	A	-	B	-	-	D	-	A	-	D	-	B
Undecyl Alcohol	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	B	A	-	-	-	-
Univis 40 (Hydr. Fluid)	-	-	-	-	-	-	-	-	D	-	A	-	-	-	-	A	-	-	B	-	A	-	D	-	A
Univolt #35 (Mineral Oil)	-	-	-	-	-	-	-	-	D	-	A	-	-	-	-	A	-	-	B	-	A	-	C	-	A
Unleaded Gasoline	A	-	A	-	A	-	D	-	-	-	A	-	A	-	-	-	-	A	D	D	A	C	-	-	-
Unsymmetrical Dimethyl Hydrazine	B	-	A	A	-	-	C	-	A	D	D	-	-	-	-	B	-	-	C	-	A	A	B	-	D

CHEMICAL COMPATIBILITY

CHEMICALS	METALS					PLASTICS, ELASTOMERS & LEATHER																			
A: Excellent, B: Good, C: Fair to Poor, D: Not recommended - No Data	Aluminum	Carbon Steel	Cast/Ductile Iron	304 Stainless Steel	316 Stainless Steel	Acetal	Buna	CSM (Hypalon)	EPR, EPDM	Fluorocarbon	Fluoroelastomer (FKM)	Geolast (Buna & Polypropylene)	Hastelloy C	TPE	Leather	Nitrile (TS)	Nitrile (TPE)	Nylon	Polychloroprene	Polypropylene	PTFE	PVDF	Santoprene (EPDM & Polypropylene)	UHMWPE	Urethane
Urea	B	-	B	B	B	A	B	-	A	A	A	B	B	B	-	B	B	C	B	A	A	A	A	A	B
Uric Acid	D	D	D	B	B	D	-	-	-	-	-	-	B	D	-	-	-	A	A	D	A	D	A	-	D
Urine	B	A	B	A	A	C	A	-	A	A	A	A	A	-	-	A	A	B	D	A	A	A	A	A	-
Valeric Acid	A	-	-	-	-	-	D	-	A	-	-	D	-	-	-	D	-	-	D	-	A	-	-	-	-
Vanilla Extract	-	-	-	A	A	-	A	-	-	D	D	A	-	-	-	A	-	-	D	-	A	-	A	A	-
Varnish	A	C	C	A	A	A	B	D	D	A	A	B	A	-	A	B	B	D	D	A	A	A	D	A	B
Vegetable Juice	D	D	D	A	A	A	A	-	A	-	A	A	-	-	-	A	-	A	D	-	D	-	A	-	B
Vegetable Oil	B	B	B	A	A	A	B	-	D	A	A	B	A	-	A	A	A	A	D	D	A	A	B	D	A
Vegetable Oil (Hot)	A	B	B	B	B	-	-	-	-	-	-	-	-	-	A	-	-	A	-	-	A	-	-	-	-
Versilube	-	-	-	-	-	-	-	-	A	-	A	-	-	-	-	A	-	-	A	-	A	-	-	A	A
Versilube F-50	-	-	-	-	-	-	-	-	A	-	A	-	-	-	-	A	-	-	A	-	A	-	-	A	A
Vinegar	D	D	D	B	A	C	C	A	A	A	A	D	A	C	A	B	B	D	B	A	A	B	A	A	B
Vinyl Acetate	B	B	C	B	B	-	D	A	B	D	A	D	A	-	-	D	D	-	D	D	A	A	B	D	D
Vinyl Chloride	D	B	B	B	A	-	D	-	D	-	A	D	A	-	-	D	-	A	D	D	A	B	-	-	-
Vinyl Chloride	D	-	A	A	-	-	D	-	C	A	-	-	A	-	-	-	-	A	D	D	A	B	D	-	-
Vinylidene Chloride	A	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	D	A	B	-	-	-
Walnut Oil	-	-	-	-	-	-	A	-	-	A	A	-	-	-	-	A	-	-	B	-	A	-	-	-	-
Water	A	D	D	A	A	A	A	-	A	-	A	-	-	A	-	-	-	-	A	B	A	-	A	-	-
Water, Acid Mine	D	D	D	B	B	A	A	-	A	-	A	A	A	-	-	A	A	A	C	B	A	A	A	A	C
Water, Boiler Feed	D	-	B	A	A	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Water, Brackish	D	-	-	A	A	-	-	-	-	-	-	-	-	-	-	-	-	B	-	-	A	-	-	-	-
Water, Deionized	A	D	D	A	A	-	A	A	A	-	A	A	A	-	-	-	-	A	A	A	A	A	-	-	-
Water, Demineralized	-	-	-	A	A	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Water, Distilled	B	D	D	A	A	B	A	-	A	A	A	A	A	-	A	A	A	A	C	B	A	A	A	A	A
Water, Fresh	B	D	D	A	A	A	A	-	A	A	B	A	A	A	A	A	A	B	B	A	A	A	A	A	A
Water, Salt	D	D	D	C	C	A	B	-	A	-	A	-	A	A	A	A	A	A	B	A	A	A	A	A	B
Water-Brine, Process, Beverage	-	D	D	B	B	A	A	-	A	-	A	-	-	-	-	A	-	-	A	-	D	-	A	A	D
Waxes	D	-	D	D	A	A	A	-	D	-	A	-	A	-	-	A	D	A	A	D	A	D	-	A	A
Weed Killers	D	-	-	A	A	A	B	-	-	A	A	B	-	-	-	-	-	A	C	-	-	-	B	-	-
Wemco C	-	-	-	A	-	A	-	-	D	-	A	-	-	-	-	A	-	-	B	-	A	-	-	-	A
Whey	B	-	-	A	A	A	A	-	-	-	A	A	-	-	-	A	A	-	-	-	A	-	A	-	-
Whiskey	C	-	D	A	A	B	A	-	A	-	A	-	-	B	-	-	-	A	A	A	A	A	-	A	-
Whiskey & Wines	D	D	D	A	A	D	B	A	A	A	A	A	A	B	-	A	A	A	C	A	A	A	A	A	D
White Liquor (Pulp Mill)	B	C	C	B	A	D	A	-	A	-	A	-	A	-	-	A	A	A	A	A	A	A	A	-	D

CHEMICAL COMPATIBILITY

CHEMICALS	METALS					PLASTICS, ELASTOMERS & LEATHER																			
A: Excellent, B: Good, C: Fair to Poor, D: Not recommended - No Data	Aluminum	Carbon Steel	Cast/Ductile Iron	304 Stainless Steel	316 Stainless Steel	Acetal	Buna	CSM (Hypalon)	EPR, EPDM	Fluorocarbon	Fluoroelastomer (FKM)	Geolast (Buna & Polypropylene)	Hastelloy C	TPE	Leather	Nitrile (TS)	Nitrile (TPE)	Nylon	Polychloroprene	Polypropylene	PTFE	PVDF	Santoprene (EPDM & Polypropylene)	UHMWPE	Urethane
White Pine Oil	-	-	-	A	-	A	B	-	D	A	A	-	A	D	-	B	-	-	D	-	A	-	C	A	A
White Spirit	-	-	-	-	A	A	-	-	-	-	-	-	-	A	-	-	-	A	-	A	A	A	D	C	-
White Sulfate Liquor	B	-	C	A	-	-	B	-	A	B	-	-	B	-	-	-	-	-	A	A	A	A	-	-	-
White Water (Paper Mill)	-	A	A	A	A	B	-	-	-	-	A	-	-	-	-	-	-	A	A	A	-	-	-	-	-
Wine	C	-	D	A	A	B	A	-	A	B	-	-	A	B	-	-	-	B	A	A	A	A	A	A	-
Wolmar Salt	-	-	-	-	-	-	-	-	A	-	A	-	-	-	-	A	-	-	B	-	A	-	-	-	A
Wood Alcohol	-	-	-	-	-	-	-	-	A	-	D	-	-	-	-	A	-	-	A	-	A	-	-	A	D
Wood Oil	A	-	A	A	-	-	-	-	D	-	A	-	-	A	-	A	-	-	B	-	A	-	-	A	C
Wood Pulp	C	-	C	A	A	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	A	-	-	-	-
Wort, Distillery	A	-	B	A	-	-	-	-	A	A	A	-	A	-	-	A	-	-	B	-	A	-	-	-	B
Xylene	B	B	B	B	B	B	D	D	D	A	B	D	A	C	-	D	C	A	D	D	A	A	D	D	D
Xylidines (Xylidin)	B	-	B	-	-	-	-	-	D	D	-	-	-	-	-	-	-	-	D	-	A	-	C	-	-
Zeolite	-	-	-	A	-	-	C	-	A	A	A	-	A	-	-	C	-	-	C	-	A	-	A	-	-
Zinc Acetate	C	-	-	A	-	-	C	-	A	D	B	A	-	-	-	B	B	-	B	A	A	A	A	A	D
Zinc Carbonate	B	-	B	B	B	-	A	-	A	A	A	A	B	-	-	A	A	-	A	-	A	-	A	A	A
Zinc Chloride	D	D	D	D	D	D	B	A	A	A	A	A	B	B	-	A	A	C	B	A	A	A	A	A	A
Zinc Cyanide	-	-	-	A	A	-	-	-	-	-	-	-	-	-	-	-	-	-	-	A	A	-	-	-	-
Zinc Hydrosulfite	D	D	D	A	A	C	A	-	A	A	-	A	-	-	-	A	A	A	A	-	A	A	A	-	-
Zinc Molten	D	-	D	D	D	D	-	-	-	-	-	-	-	-	-	-	-	D	-	D	D	D	-	D	-
Zinc Nitrate	-	-	-	A	A	-	-	-	-	-	-	-	-	-	-	-	-	A	-	A	A	A	-	-	-
Zinc Salts	-	-	-	-	-	-	-	-	A	-	A	-	-	-	-	A	A	-	A	A	A	A	A	-	A
Zinc Stearate	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	A	A	-	-	-	-
Zinc Sulfate	D	D	D	B	A	C	A	A	A	B	A	A	B	D	-	A	A	C	A	A	A	A	A	A	A