

CHEMICAL COMPATIBILITY

| CHEMICALS | METALS | | | | | PLASTICS, ELASTOMERS & LEATHER | | | | | | | | | | | | | | | | | | | |
|---------------------------------|----------|--------------|-------------------|---------------------|---------------------|--------------------------------|------|---------------|-----------|--------------|-----------------------|--------------------------------|-------------|-----|---------|--------------|---------------|-------|-----------------|---------------|------|------|-----------------------------------|--------|----------|
| | 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 | - | - | - | - |

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| | 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 Chlorhydroxide | 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 Chloronaphthalene | - | - | - | - | - | - | B | - | - | A | A | - | - | - | - | - | - | - | D | - | A | - | C | - | - |
| Amyl Naphthalene | - | - | - | - | - | - | D | - | D | A | A | - | - | D | - | D | D | - | D | - | A | - | C | - | D |
| Amyl Naphthalene | - | - | - | - | - | - | 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 | | | | | | | | | | | | | | | | | | | | |
|--|----------|--------------|-------------------|---------------------|---------------------|--------------------------------|------|---------------|-----------|--------------|-----------------------|--------------------------------|-------------|-----|---------|--------------|---------------|-------|-----------------|---------------|------|------|-----------------------------------|--------|----------|---|
| | 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 | |
| A: Excellent, B: Good, C: Fair to Poor, D: Not recommended - No Data | | | | | | | | | | | | | | | | | | | | | | | | | | |
| 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 (Glycerol 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 | C | D |
| Aniline Dyes | B | - | C | B | B | D | C | - | C | B | A | D | - | D | - | C | D | - | C | - | A | - | B | C | C | D |
| Aniline Hydrochloride | D | D | D | D | D | - | D | - | B | B | B | D | D | - | - | C | D | D | D | D | A | B | A | C | 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 | 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 | |
| Antimony Trichloride | B | - | A | A | - | - | - | - | B | - | A | - | B | D | - | B | - | - | C | A | A | A | A | A | A | D |
| Antimony Chloride | B | - | A | A | - | - | - | - | A | - | B | - | B | D | - | B | B | - | D | A | 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 | |
| Arsenic Acid | D | - | D | A | - | D | - | - | A | - | A | - | B | D | - | A | A | - | B | A | A | A | A | A | C | |
| Arsenic 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 | | | | | | | | | | | | | | | | | | | |
|--|----------|--------------|-------------------|---------------------|---------------------|--------------------------------|------|---------------|-----------|--------------|-----------------------|--------------------------------|-------------|-----|---------|--------------|---------------|-------|-----------------|---------------|------|------|-----------------------------------|--------|----------|
| | 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 | | | | | | | | | | | | | | | | | | | |
|-------------------------------------|----------|--------------|-------------------|---------------------|---------------------|--------------------------------|------|---------------|-----------|--------------|-----------------------|--------------------------------|-------------|-----|---------|--------------|---------------|-------|-----------------|---------------|------|------|-----------------------------------|--------|----------|
| | 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 | | | | | | | | | | | | | | | | | | | |
|--|----------|--------------|-------------------|---------------------|---------------------|--------------------------------|------|---------------|-----------|--------------|-----------------------|--------------------------------|-------------|-----|---------|--------------|---------------|-------|-----------------|---------------|------|------|-----------------------------------|--------|----------|
| | 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 | | | | | | | | | | | | | | | | | | | |
|-------------------------------------|----------|--------------|-------------------|---------------------|---------------------|--------------------------------|------|---------------|-----------|--------------|-----------------------|--------------------------------|-------------|-----|---------|--------------|---------------|-------|-----------------|---------------|------|------|-----------------------------------|--------|----------|
| | 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 | | | | | | | | | | | | | | | | | | | | |
|--|----------|--------------|-------------------|---------------------|---------------------|--------------------------------|------|---------------|-----------|--------------|-----------------------|--------------------------------|-------------|-----|---------|--------------|---------------|-------|-----------------|---------------|------|------|-----------------------------------|--------|----------|---|
| | 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 | 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 | 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 | A | D |
| Calcium Chlorate | B | - | B | B | - | A | A | B | A | A | A | A | B | - | - | A | 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 | 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 | 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 | 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 | 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 | 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 | B |
| Calcium Sulfide | A | - | B | B | B | - | A | - | A | A | A | A | A | - | - | A | A | - | B | A | A | A | A | - | A | A |
| Calcium Sulfite | B | - | B | A | - | - | A | - | A | A | A | A | - | - | - | A | B | - | A | - | A | - | A | - | A | A |
| Calcium Thiosulfate | - | - | - | - | - | - | - | - | A | - | A | - | - | D | - | B | C | - | A | - | 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 | D |
| Cane Juice | B | A | A | A | A | A | A | A | A | - | A | A | - | - | - | A | B | A | A | D | A | B | A | - | D | D |
| Cane Sugar Liquors | A | A | B | A | A | - | A | - | A | A | A | A | - | B | - | A | A | - | A | A | A | A | A | - | D | D |
| Capryl Alcohol (Octanol) | A | - | A | A | - | - | A | - | C | B | B | - | A | - | - | A | B | - | D | - | A | - | A | - | D | D |
| Caprylic Acid (Octanoic Acid) | A | - | - | A | - | - | C | - | A | - | A | D | A | - | - | C | C | - | - | - | A | A | A | - | - | - |

CHEMICAL COMPATIBILITY

| CHEMICALS | METALS | | | | | PLASTICS, ELASTOMERS & LEATHER | | | | | | | | | | | | | | | | | | | |
|-----------------------------|----------|--------------|-------------------|---------------------|---------------------|--------------------------------|------|---------------|-----------|--------------|-----------------------|--------------------------------|-------------|-----|---------|--------------|---------------|-------|-----------------|---------------|------|------|-----------------------------------|--------|----------|
| | 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 |
| Cellugard | - | - | - | - | - | - | - | - | 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 |
| Chloracetaldehyde | - | - | - | - | - | - | - | - | 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 | | | | | | | | | | | | | | | | | | | |
|-------------------------------------|----------|--------------|-------------------|---------------------|---------------------|--------------------------------|------|---------------|-----------|--------------|-----------------------|--------------------------------|-------------|-----|---------|--------------|---------------|-------|-----------------|---------------|------|------|-----------------------------------|--------|----------|
| | 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 | | | | | | | | | | | | | | | | | | | |
|------------------------------|----------|--------------|-------------------|---------------------|---------------------|--------------------------------|------|---------------|-----------|--------------|-----------------------|--------------------------------|-------------|-----|---------|--------------|---------------|-------|-----------------|---------------|------|------|-----------------------------------|--------|----------|
| | 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 | | | | | | | | | | | | | | | | | | | |
|---------------------------------|----------|--------------|-------------------|---------------------|---------------------|--------------------------------|------|---------------|-----------|--------------|-----------------------|--------------------------------|-------------|-----|---------|--------------|---------------|-------|-----------------|---------------|------|------|-----------------------------------|--------|----------|
| | 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 |
| Cumene (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 | | | | | | | | | | | | | | | | | | | |
|--------------------------------|----------|--------------|-------------------|---------------------|---------------------|--------------------------------|------|---------------|-----------|--------------|-----------------------|--------------------------------|-------------|-----|---------|--------------|---------------|-------|-----------------|---------------|------|------|-----------------------------------|--------|----------|
| | 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 | | | | | | | | | | | | | | | | | | | |
|-------------------------------|----------|--------------|-------------------|---------------------|---------------------|--------------------------------|------|---------------|-----------|--------------|-----------------------|--------------------------------|-------------|-----|---------|--------------|---------------|-------|-----------------|---------------|------|------|-----------------------------------|--------|----------|
| | 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 | | | | | | | | | | | | | | | | | | | |
|----------------------------|----------|--------------|-------------------|---------------------|---------------------|--------------------------------|------|---------------|-----------|--------------|-----------------------|--------------------------------|-------------|-----|---------|--------------|---------------|-------|-----------------|---------------|------|------|-----------------------------------|--------|----------|
| | 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 | | | | | | | | | | | | | | | | | | | |
|--|----------|--------------|-------------------|---------------------|---------------------|--------------------------------|------|---------------|-----------|--------------|-----------------------|--------------------------------|-------------|-----|---------|--------------|---------------|-------|-----------------|---------------|------|------|-----------------------------------|--------|----------|
| | 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 | - | - | - | - | - | - |
| Ethyl 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 |
| Ethylene Oxide | - | - | - | - | - | - | - | - | - | - | - | D | - | - | - | - | - | - | - | - | - | - | - | - | - |
| Ethylene 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 Alcohol (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 | | | | | | | | | | | | | | | | | | | |
|--|----------|--------------|-------------------|---------------------|---------------------|--------------------------------|------|---------------|-----------|--------------|-----------------------|--------------------------------|-------------|-----|---------|--------------|---------------|-------|-----------------|---------------|------|------|-----------------------------------|--------|----------|
| | 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 | | | | | | | | | | | | | | | | | | | |
|---|----------|--------------|-------------------|---------------------|---------------------|--------------------------------|------|---------------|-----------|--------------|-----------------------|--------------------------------|-------------|-----|---------|--------------|---------------|-------|-----------------|---------------|------|------|-----------------------------------|--------|----------|
| | 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 |
| Fluoboric 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 | | | | | | | | | | | | | | | | | | | |
|---------------------------|----------|--------------|-------------------|---------------------|---------------------|--------------------------------|------|---------------|-----------|--------------|-----------------------|--------------------------------|-------------|-----|---------|--------------|---------------|-------|-----------------|---------------|------|------|-----------------------------------|--------|----------|
| | 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 | | | | | | | | | | | | | | | | | | | | |
|---------------------------------------|----------|--------------|-------------------|---------------------|---------------------|--------------------------------|------|---------------|-----------|--------------|-----------------------|--------------------------------|-------------|-----|---------|--------------|---------------|-------|-----------------|---------------|------|------|-----------------------------------|--------|----------|---|
| | 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 | 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 | 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 | 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 | 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 | 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 | 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 | 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 | | | | | | | | | | | | | | | | | | | | |
|----------------------------|----------|--------------|-------------------|---------------------|---------------------|--------------------------------|------|---------------|-----------|--------------|-----------------------|--------------------------------|-------------|-----|---------|--------------|---------------|-------|-----------------|---------------|------|------|-----------------------------------|--------|----------|---|
| | 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 | 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 | 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 | 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 | | | | | | | | | | | | | | | | | | | |
|--|----------|--------------|-------------------|---------------------|---------------------|--------------------------------|------|---------------|-----------|--------------|-----------------------|--------------------------------|-------------|-----|---------|--------------|---------------|-------|-----------------|---------------|------|------|-----------------------------------|--------|----------|
| | 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 | | | | | | | | | | | | | | | | | | | |
|---------------------------------|----------|--------------|-------------------|---------------------|---------------------|--------------------------------|------|---------------|-----------|--------------|-----------------------|--------------------------------|-------------|-----|---------|--------------|---------------|-------|-----------------|---------------|------|------|-----------------------------------|--------|----------|
| | 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 | - | - | - |
| Hydyne | - | - | - | - | - | - | - | - | 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 | | | | | | | | | | | | | | | | | | | |
|---------------------------------|----------|--------------|-------------------|---------------------|---------------------|--------------------------------|------|---------------|-----------|--------------|-----------------------|--------------------------------|-------------|-----|---------|--------------|---------------|-------|-----------------|---------------|------|------|-----------------------------------|--------|----------|
| | 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 | | | | | | | | | | | | | | | | | | | |
|---------------------------------|----------|--------------|-------------------|---------------------|---------------------|--------------------------------|------|---------------|-----------|--------------|-----------------------|--------------------------------|-------------|-----|---------|--------------|---------------|-------|-----------------|---------------|------|------|-----------------------------------|--------|----------|
| | 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 | | | | | | | | | | | | | | | | | | | |
|--|----------|--------------|-------------------|---------------------|---------------------|--------------------------------|------|---------------|-----------|--------------|-----------------------|--------------------------------|-------------|-----|---------|--------------|---------------|-------|-----------------|---------------|------|------|-----------------------------------|--------|----------|
| | 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 | | | | | | | | | | | | | | | | | | | | |
|--|----------|--------------|-------------------|---------------------|---------------------|--------------------------------|------|---------------|-----------|--------------|-----------------------|--------------------------------|-------------|-----|---------|--------------|---------------|-------|-----------------|---------------|------|------|-----------------------------------|--------|----------|---|
| | 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 | 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 | | | | | | | | | | | | | | | | | | | |
|-------------------------------------|----------|--------------|-------------------|---------------------|---------------------|--------------------------------|------|---------------|-----------|--------------|-----------------------|--------------------------------|-------------|-----|---------|--------------|---------------|-------|-----------------|---------------|------|------|-----------------------------------|--------|----------|
| | 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 | | | | | | | | | | | | | | | | | | | |
|--------------------------------|----------|--------------|-------------------|---------------------|---------------------|--------------------------------|------|---------------|-----------|--------------|-----------------------|--------------------------------|-------------|-----|---------|--------------|---------------|-------|-----------------|---------------|------|------|-----------------------------------|--------|----------|
| | 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 |
| Monobromobenzene | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - |
| 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 | | | | | | | | | | | | | | | | | | | |
|---|----------|--------------|-------------------|---------------------|---------------------|--------------------------------|------|---------------|-----------|--------------|-----------------------|--------------------------------|-------------|-----|---------|--------------|---------------|-------|-----------------|---------------|------|------|-----------------------------------|--------|----------|
| | 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 | | | | | | | | | | | | | | | | | | | |
|------------------------------|----------|--------------|-------------------|---------------------|---------------------|--------------------------------|------|---------------|-----------|--------------|-----------------------|--------------------------------|-------------|-----|---------|--------------|---------------|-------|-----------------|---------------|------|------|-----------------------------------|--------|----------|
| | 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 | | | | | | | | | | | | | | | | | | | |
|---------------------------------|----------|--------------|-------------------|---------------------|---------------------|--------------------------------|------|---------------|-----------|--------------|-----------------------|--------------------------------|-------------|-----|---------|--------------|---------------|-------|-----------------|---------------|------|------|-----------------------------------|--------|----------|
| | 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 | | | | | | | | | | | | | | | | | | | |
|------------------------------|----------|--------------|-------------------|---------------------|---------------------|--------------------------------|------|---------------|-----------|--------------|-----------------------|--------------------------------|-------------|-----|---------|--------------|---------------|-------|-----------------|---------------|------|------|-----------------------------------|--------|----------|
| | 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 | | | | | | | | | | | | | | | | | | | |
|---------------------------------|----------|--------------|-------------------|---------------------|---------------------|--------------------------------|------|---------------|-----------|--------------|-----------------------|--------------------------------|-------------|-----|---------|--------------|---------------|-------|-----------------|---------------|------|------|-----------------------------------|--------|----------|
| | 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 | - | - | - | - |
| Paraaldehyde | 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 | | | | | | | | | | | | | | | | | | | |
|------------------------------------|----------|--------------|-------------------|---------------------|---------------------|--------------------------------|------|---------------|-----------|--------------|-----------------------|--------------------------------|-------------|-----|---------|--------------|---------------|-------|-----------------|---------------|------|------|-----------------------------------|--------|----------|
| | 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 | | | | | | | | | | | | | | | | | | | |
|---|----------|--------------|-------------------|---------------------|---------------------|--------------------------------|------|---------------|-----------|--------------|-----------------------|--------------------------------|-------------|-----|---------|--------------|---------------|-------|-----------------|---------------|------|------|-----------------------------------|--------|----------|
| | 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 | | | | | | | | | | | | | | | | | | | | |
|--|----------|--------------|-------------------|---------------------|---------------------|--------------------------------|------|---------------|-----------|--------------|-----------------------|--------------------------------|-------------|-----|---------|--------------|---------------|-------|-----------------|---------------|------|------|-----------------------------------|--------|----------|---|
| | 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 | A | - | - | - |
| Plating Solutions - Copper (Rochelle Salt Bath 150°F) | A | A | A | - | A | B | A | - | - | - | A | - | A | - | - | - | - | A | B | A | A | A | A | - | - | - |
| Plating Solutions - Copper (Copper Strike Bath 120°F) | - | A | 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 | A | B | A | A | - |
| Plating Solutions - Gold (Acid 75°F) | - | - | - | - | C | - | A | - | - | - | A | - | A | - | - | - | - | A | A | A | A | A | - | - | - | - |
| Plating Solutions - Gold (Cyanide 150°F) | - | - | - | - | A | - | A | - | - | - | A | - | A | - | - | - | - | A | A | A | A | A | - | - | - | - |
| Plating Solutions - Gold (Neutral 75°F) | - | - | - | - | C | - | A | - | - | - | A | - | A | - | - | - | - | A | A | A | A | A | - | - | - | - |
| Plating Solutions - Indium | C | - | - | A | C | - | A | - | - | - | A | - | A | - | - | A | B | D | A | A | A | A | - | A | A | - |
| Plating Solutions - Iron | C | - | - | A | A | - | A | - | - | - | A | - | A | - | - | A | B | D | A | 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 | 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 | 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 | | | | | | | | | | | | | | | | | | | |
|------------------------------|----------|--------------|-------------------|---------------------|---------------------|--------------------------------|------|---------------|-----------|--------------|-----------------------|--------------------------------|-------------|-----|---------|--------------|---------------|-------|-----------------|---------------|------|------|-----------------------------------|--------|----------|
| | 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 | | | | | | | | | | | | | | | | | | | |
|----------------------------------|----------|--------------|-------------------|---------------------|---------------------|--------------------------------|------|---------------|-----------|--------------|-----------------------|--------------------------------|-------------|-----|---------|--------------|---------------|-------|-----------------|---------------|------|------|-----------------------------------|--------|----------|
| | 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 | | | | | | | | | | | | | | | | | | | |
|------------------------|----------|--------------|-------------------|---------------------|---------------------|--------------------------------|------|---------------|-----------|--------------|-----------------------|--------------------------------|-------------|-----|---------|--------------|---------------|-------|-----------------|---------------|------|------|-----------------------------------|--------|----------|
| | 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 | | | | | | | | | | | | | | | | | | | |
|----------------------------|----------|--------------|-------------------|---------------------|---------------------|--------------------------------|------|---------------|-----------|--------------|-----------------------|--------------------------------|-------------|-----|---------|--------------|---------------|-------|-----------------|---------------|------|------|-----------------------------------|--------|----------|
| | 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 | | | | | | | | | | | | | | | | | | | | |
|---|----------|--------------|-------------------|---------------------|---------------------|--------------------------------|------|---------------|-----------|--------------|-----------------------|--------------------------------|-------------|-----|---------|--------------|---------------|-------|-----------------|---------------|------|------|-----------------------------------|--------|----------|---|
| | 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 | 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 | 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 | | | | | | | | | | | | | | | | | | | | |
|---------------------------------|----------|--------------|-------------------|---------------------|---------------------|--------------------------------|------|---------------|-----------|--------------|-----------------------|--------------------------------|-------------|-----|---------|--------------|---------------|-------|-----------------|---------------|------|------|-----------------------------------|--------|----------|---|
| | 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 | - | B |
| 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 | 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 | |
| Sulfuric 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 | | | | | | | | | | | | | | | | | | | |
|-------------------------------------|----------|--------------|-------------------|---------------------|---------------------|--------------------------------|------|---------------|-----------|--------------|-----------------------|--------------------------------|-------------|-----|---------|--------------|---------------|-------|-----------------|---------------|------|------|-----------------------------------|--------|----------|
| | 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 | | | | | | | | | | | | | | | | | | | |
|------------------------------------|----------|--------------|-------------------|---------------------|---------------------|--------------------------------|------|---------------|-----------|--------------|-----------------------|--------------------------------|-------------|-----|---------|--------------|---------------|-------|-----------------|---------------|------|------|-----------------------------------|--------|----------|
| | 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 | | | | | | | | | | | | | | | | | | | | |
|--------------------------------------|----------|--------------|-------------------|---------------------|---------------------|--------------------------------|------|---------------|-----------|--------------|-----------------------|--------------------------------|-------------|-----|---------|--------------|---------------|-------|-----------------|---------------|------|------|-----------------------------------|--------|----------|---|
| | 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 | - | 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 | | | | | | | | | | | | | | | | | | | | |
|--------------------------------------|----------|--------------|-------------------|---------------------|---------------------|--------------------------------|------|---------------|-----------|--------------|-----------------------|--------------------------------|-------------|-----|---------|--------------|---------------|-------|-----------------|---------------|------|------|-----------------------------------|--------|----------|---|
| | 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 | 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 | | | | | | | | | | | | | | | | | | | |
|--------------------------------|----------|--------------|-------------------|---------------------|---------------------|--------------------------------|------|---------------|-----------|--------------|-----------------------|--------------------------------|-------------|-----|---------|--------------|---------------|-------|-----------------|---------------|------|------|-----------------------------------|--------|----------|
| | 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 | B | 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 | | | | | | | | | | | | | | | | | | | |
|--------------------------|----------|--------------|-------------------|---------------------|---------------------|--------------------------------|------|---------------|-----------|--------------|-----------------------|--------------------------------|-------------|-----|---------|--------------|---------------|-------|-----------------|---------------|------|------|-----------------------------------|--------|----------|
| | 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 |