# Material Compatibility Selection Chart

## Soft and Metal Goods

This Material Compatibility Selection Chart should be considered as a guide only. Since detailed information such as temperature, concentration, etc. is unknown, it cannot be considered as exact. The information is provided in conformance with the best current Industrial Technology regarding the specific subject. In all cases, selection requires sound Engineering judgment and additional information may be required.

# Soft Goods Material Compatibility

| Fluid | BunaN | EPDM | Neoprene | Viton | PTFE | RTFE | UHMWPE | Polyurethane | Silicone | Nat. Rubber | Peek |
|---|---|---|---|---|---|---|---|---|---|---|---|
| Acetal | U | U | * | U | E | * | * | * | * | * | * |
| Acetaldehyde | U | E | U | U | E | * | * | * | U | | E |
| Acetamide | E | G | E | E | E | * | * | * | U | * | * |
| Acetate | * | * | * | * | E | * | E | * | * | * | * |
| Acetate of lead - watery | U | E | * | G | E | * | * | * | * | * | * |
| Acetic Acid 10% | G | E | E | E | E | * | * | G | G | G | E |
| Acetic Acid 80% | G | E | E | E | E | * | * | G | G | U | E |
| Acetic Acid Anhydride | U | U | E | U | E | * | * | * | U | U | * |
| Acetic Acid Crude | U | E | * | U | E | * | * | * | * | * | * |
| Acetic Acid Pure | U | E | * | U | E | * | * | * | * | * | * |
| Acetone | U | E | U | U | E | * | * | * | U | U | E |
| Acetonnitrile | * | G | * | U | E | * | * | * | * | * | * |
| Acetophenone | U | E | U | U | E | * | * | * | U | E | * |
| Acetryl Acetone | * | * | * | U | E | * | * | * | * | * | * |
| Acetyl Chloride | * | * | E | * | E | G | * | G | * | * | * |
| Acetylene | E | E | G | E | E | * | * | * | * | * | * |
| Acid Sludge | U | G | * | G | * | * | * | * | * | * | * |
| Acrylic Latex | U | U | * | U | E | * | * | * | * | * | * |
| Acrylonitrile | U | G | E | U | E | * | * | * | G | * | U |
| Air (Dry) | E | E | * | * | E | * | * | * | * | * | * |
| Alcohol - Ethyl | G | E | * | G | E | * | * | * | * | * | * |
| Alcohol - Methyl | G | E | * | U | E | * | * | * | * | * | * |
| Alcohol Amyl | G | E | * | E | E | * | * | * | * | * | * |
| Alcohol Butyl | G | E | * | E | E | * | * | * | * | * | * |
| Alcohol Ether / Cellosolve | U | * | * | * | E | * | * | * | * | * | * |
| Alicyclic Hydrocarbon | U | U | * | * | E | * | * | * | * | * | * |
| Allyl Chloride | U | U | G | U | E | * | * | * | G | U | * |
| Alum - Ammonium | G | E | G | * | E | * | * | * | E | U | * |
| Alum - Chrome | G | * | E | E | E | * | * | * | E | * | * |
| Alum - Potassium | G | E | E | E | E | * | * | * | * | * | * |
| Alumina | E | E | * | G | E | * | * | * | * | * | * |
| Aluminum Chloride | G | E | E | E | E | * | * | * | E | E | * |
| Aluminum Fluoride | G | E | * | E | E | * | * | * | E | E | * |
| Aluminum Hydroxide | G | * | E | G | E | * | * | * | G | * | * |
| Aluminum Nitrate | E | E | E | E | E | * | * | * | * | * | * |
| Aluminum Potassium Sulf | E | E | E | E | E | * | E | * | * | E | * |
| Aluminum Sulphate | E | E | E | E | E | * | E | * | * | E | U |
| Amines | G | E | * | * | E | * | * | * | * | * | * |
| Ammonia Dichromate Solut. | * | * | * | * | E | * | * | * | * | * | * |
| Ammonia Gas (Cold) | E | E | E | U | E | * | E | * | U | U | E |
| Ammonia Solutions | G | G | * | U | E | * | * | * | * | * | * |
| Ammonia - Anhydrous | G | E | E | U | E | * | E | * | U | U | U |
| Ammonia - Liquid | G | E | * | U | * | * | * | * | * | * | * |

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## Soft Goods Material Compatibility

| Fluid | BunaN | EPDM | Neoprene | Viton | PTFE | RTFE | UHMWPE | Polyurethane | Silicone | Nat. Rubber | Peek |
|---|---|---|---|---|---|---|---|---|---|---|---|
| Ammonium Acetate | E | G | E | U | E | * | * | * | * | * | * |
| Ammonium Carbonate | G | E | E | E | E | * | * | * | * | E | E |
| Ammonium Carbonate Solut. | U | E | * | E | * | * | * | * | * | * | * |
| Ammonium Chloride | E | E | E | E | E | * | * | * | * | * | * |
| Ammonium Chloride Solut. | E | E | * | E | E | * | E | * | * | * | * |
| Ammonium Fluoride | E | E | E | E | E | * | E | * | * | U | E |
| Ammonium Hydroxide | E | E | E | E | E | * | * | * | E | * | U |
| Ammonium Metaphosphate | G | E | E | E | E | * | * | * | E | * | E |
| Ammonium Nitrate (5% @ 60F) | E | G | * | U | E | * | * | * | * | * | * |
| Ammonium Nitrate Solution | G | E | E | U | E | * | E | * | E | E | * |
| Ammonium Phosphate | E | G | E | E | E | * | * | * | U | E | * |
| Ammonium Sulfamate Solut. | * | * | * | * | E | * | * | * | * | * | * |
| Ammonium Sulfite | U | * | E | * | E | * | * | * | E | * | * |
| Ammonium Sulphate (90% @ 180F) | E | E | * | U | E | * | * | * | * | * | * |
| Ammonium Sulphide | G | G | E | U | E | * | E | * | * | * | * |
| Ammonium Thiocyanate | G | E | E | E | E | * | E | * | * | * | * |
| Ammonium ThiosulfateSol. | * | * | * | * | E | * | * | * | * | * | |
| Amyl Acetate | U | E | U | U | E | * | E | * | U | U | * |
| Amyl Alcohol | E | E | E | E | E | * | E | * | U | E | * |
| Amyl Borate | G | * | * | * | E | * | * | * | * | * | * |
| Amyl Chloride | U | U | U | E | E | * | U | * | E | * | * |
| Amyl Naphthalene | U | U | * | G | E | * | * | * | * | * | * |
| Analine - Aniline Oil | U | U | * | U | E | * | * | * | * | * | * |
| Aniline 90% @ 70F | U | G | * | G | E | * | * | * | * | * | * |
| Aniline Dyes | U | G | * | G | E | * | * | * | * | * | * |
| Antimony Chloride | U | * | * | * | E | * | E | * | * | * | |
| Antimony Trichloride | U | G | E | E | E | * | E | * | E | * | * |
| Aqua Regia | U | U | U | E | E | * | U | * | E | U | U |
| Argon | E | E | E | G | E | * | * | * | E | U | * |
| Aroclor | U | U | * | E | E | * | * | * | U | * | * |
| Arsenic Acid | G | G | E | E | E | * | E | * | G | E | * |
| Arsenic Trichloride | * | * | * | * | E | * | * | * | * | * | * |
| Asphalt | G | U | U | E | E | * | * | * | U | * | * |
| Baking Soda | E | E | * | E | * | * | * | * | * | * | * |
| Baking Soda (Sod. Bicarb) | E | E | E | E | E | * | E | * | E | E | * |
| Bardol B | * | * | * | U | * | * | * | * | * | * | * |
| Barium Carbonate (60F) | E | E | E | E | E | * | E | * | * | E | * |
| Barium Chloride | E | E | E | E | E | * | E | * | E | * | * |
| Barium Cyanide | G | E | * | * | E | * | E | * | E | * | * |
| Barium Hydroxide | E | E | E | E | E | * | E | * | E | E | * |
| Barium Sulphate (60F) | E | E | E | E | E | * | E | * | E | E | * |
| Barium Sulphide | E | E | E | E | E | * | E | * | E | E | * |
| Bariumcarbonate | G | E | * | E | * | * | * | * | * | * | * |

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|---|---|---|---|---|---|---|---|---|---|---|---|
| Beer | U | E | E | E | E | * | E | * | E | * | * |
| Beer (Alcohol Industry) | E | E | * | E | * | * | * | * | * | * | * |
| Beer (breweries) | E | E | * | E | * | * | * | * | * | * | * |
| Beet Sugar Liquors | E | E | E | E | E | * | * | * | E | E | * |
| Beet Sugar Solution | G | G | * | E | E | * | * | * | * | * | * |
| Benzaldehyde | U | G | E | U | E | * | U | * | U | U | U |
| Benzene (Benzol) 70F | U | U | U | G | E | * | U | * | G | * | U |
| Benzene Sulfuric Acid | U | U | E | E | E | * | U | * | U | U | * |
| Benzoic Acid | U | G | E | E | E | * | E | * | U | * | E |
| Benzol Mixture | U | U | * | G | E | * | * | * | * | * | * |
| Benzoyl Chloride | U | U | U | G | E | * | * | * | * | * | * |
| Benzyl Alcohol | U | U | E | E | E | * | E | * | G | U | * |
| Benzyl Benzoate | U | * | * | * | E | * | * | * | * | * | * |
| Benzyl Chloride | U | U | U | E | E | * | * | * | * | U | * |
| Bismuth Carbonate (dry) | E | E | P | E | E | * | E | * | E | * | * |
| Bitumen | U | U | * | G | E | * | * | * | * | * | * |
| Black Liquor | G | E | G | E | E | * | E | * | * | U | E |
| Blast Furnace Gas | E | U | * | * | * | * | * | * | * | * | * |
| Bleach (Laundry) | G | E | * | * | * | * | * | * | * | * | * |
| Bleach Liquor | * | * | * | * | E | * | * | * | * | * | * |
| Bleach Pulp Stock | E | E | * | E | * | * | * | * | * | * | * |
| Bleaching Powder - Wet | E | G | * | E | E | * | * | * | * | * | * |
| Bonderite Solution (Auto) | E | E | * | E | * | * | * | * | * | * | * |
| Bone Oil (Pyridine Oil) | U | U | * | U | E | * | E | * | * | * | * |
| Borax | E | E | E | E | E | * | E | * | G | E | * |
| Bordeau Mixture | G | E | * | E | E | * | * | * | * | * | * |
| Boric Acid (5% @ 200F) | E | E | * | E | E | * | E | * | * | * | U |
| Brake Fluid (Automotive) | * | G | * | * | E | * | * | * | * | * | * |
| Brandy | E | E | * | E | * | * | * | * | * | * | * |
| Brine - Chlorinated | * | G | * | * | E | * | * | * | * | * | * |
| Brine (Acid) | E | E | E | E | E | * | E | * | E | * | * |
| Brine Alkaline | * | * | * | * | E | * | E | * | * | * | * |
| Brine Solution | E | E | * | * | E | * | E | * | * | * | * |
| Brine - Saturated | E | E | * | * | * | * | * | * | * | * | * |
| Brombenzene | U | U | * | G | E | * | * | * | * | * | * |
| Bromine - Gas | U | U | * | E | E | * | * | * | * | * | * |
| Bromine - Water | U | U | G | E | E | * | U | * | U | U | * |
| Bromine - dry | U | U | * | E | E | * | E | * | * | * | * |
| Bromobenzene | U | U | U | E | E | * | U | * | U | U | * |
| Budium (can coating) | U | U | * | U | E | * | * | * | * | * | * |
| Bulk Materials - dry | E | E | * | E | * | * | * | * | * | * | * |
| Butadiene | G | G | G | E | E | * | U | * | U | * | * |
| Butane - Butylene | G | G | E | E | E | * | * | * | E | U | U |

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|---|---|---|---|---|---|---|---|---|---|---|---|
| Butane - Liquid | G | U | * | E | E | * | * | * | * | * | * |
| Butric Acid (5% @ 70F) | U | G | * | G | E | * | * | * | * | * | * |
| Butter | E | U | * | E | * | * | * | * | * | * | * |
| Buttermilk | E | E | * | E | * | * | * | * | * | * | * |
| Butyl Acetate | U | U | E | U | E | * | * | * | U | U | U |
| Butyl Alcohol (butanol) | G | G | E | E | E | * | E | * | G | E | * |
| Butyl Carbitol | G | G | * | * | E | * | * | * | * | * | * |
| Butyl Cellosolve/alc.eth. | U | U | E | U | E | * | * | * | * | * | * |
| Butyl Ether | U | U | E | U | E | * | * | * | U | * | * |
| Butyl Oleate | U | U | * | * | E | * | * | * | * | * | * |
| Butyl Stearate | G | U | U | E | E | * | * | * | * | * | * |
| Butyladehyde | U | U | U | U | G | * | * | * | U | U | * |
| Butyle Acetyl Ricinoleate | G | * | * | * | * | * | * | * | * | * | * |
| Butylenes | U | U | * | G | E | * | * | * | * | * | * |
| Butyric Acid | U | G | U | G | E | * | G | * | U | * | * |
| Cadmium Bicarbonate | * | * | * | * | E | * | E | * | * | * | * |
| Cadmium Bisulfate | * | * | * | * | E | * | E | * | * | * | * |
| Cadmium Cyanide (dry) | * | * | E | * | E | * | * | * | * | * | * |
| Cadmium Sulfate | * | * | E | * | E | * | * | * | * | * | E |
| Calcium Acetate | E | E | * | U | E | * | * | * | U | E | * |
| Calcium Bisulfate | E | E | E | * | E | * | * | * | E | * | E |
| Calcium Bisulfite | E | U | E | E | E | * | U | * | E | E | * |
| Calcium Carbonate (60F) | E | E | E | E | E | * | E | * | E | E | U |
| Calcium Chlorate (20% @ 160F) | E | * | E | E | E | * | E | * | E | * | * |
| Calcium Chloride | E | E | E | E | E | * | E | * | E | E | U |
| Calcium Fluophosphate | * | * | * | * | E | * | * | * | * | * | * |
| Calcium Hydroxide (50% @ 175F) | G | E | * | E | E | * | * | * | * | * | * |
| Calcium Hypochlorite | U | E | E | * | E | * | * | * | * | P | E |
| Calcium Nitrate | G | G | E | E | E | * | * | * | G | E | E |
| Calcium Oxide | E | G | E | * | E | * | * | * | * | * | E |
| Calcium Phosphate | * | * | * | * | E | * | E | * | * | * | * |
| Calcium Sulfide | U | * | E | E | E | * | * | * | E | * | * |
| Calcium Sulphate (90% @ 60F) | E | E | G | E | E | * | * | * | E | E | E |
| Calgon | E | * | * | E | E | * | * | * | * | * | * |
| Caliche Liquor | G | G | * | * | E | * | * | * | * | * | * |
| Calzium Bicarbonate | * | * | * | * | E | * | E | * | * | * | * |
| Camdens White Liquor | G | * | * | * | E | * | * | * | * | * | * |
| Carbitol | G | G | E | G | E | * | * | * | U | * | * |
| Carbiton Acid / Phenol | U | U | * | E | E | * | * | * | * | * | * |
| Carbon Bisulfide | G | U | U | E | E | * | U | * | U | U | * |
| Carbon Dioxide | G | G | * | E | E | * | * | * | * | * | * |
| Carbon Dioxide - gas dry | E | E | * | E | E | * | E | * | * | * | * |
| Carbon Dioxide (Dry) | E | E | E | U | E | * | E | * | * | E | E |

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|---|---|---|---|---|---|---|---|---|---|---|---|
| Carbon Dioxide - Wet | G | E | * | U | E | * | E | * | E | E | * |
| Carbon Disulfide | U | U | U | G | E | * | U | * | U | U | * |
| Carbon Granules | E | E | * | E | * | * | * | * | * | * | * |
| Carbon Monoxide | E | E | E | E | E | * | E | * | E | U | E |
| Carbon Tetrachloride | U | U | U | E | E | * | U | * | U | * | U |
| Carbon Tetrachloride(dry) | U | U | * | U | E | * | G | * | * | * | * |
| Carbonated Water | E | E | * | E | E | * | E | * | * | * | * |
| Carbonic Acid | G | G | E | E | E | * | E | * | E | E | U |
| Carboxymethyl Cellulose | U | U | * | * | E | * | * | * | * | * | * |
| Castor Oil | E | U | G | E | E | * | * | * | G | E | G |
| Caustic Potash | E | E | * | E | E | * | * | * | U | E | E |
| Caustic Soda - Sodium / Lye | E | E | * | U | * | * | * | * | * | * | * |
| Caustic Solutions (34% @ 200F) | U | G | * | E | E | * | * | * | * | * | * |
| Caustic Soda / Lye | U | U | * | U | E | * | * | * | * | * | * |
| Cellosolve | U | G | U | U | E | * | * | * | U | U | * |
| Cellosolve (alcoh. ether) | U | * | * | * | E | * | * | * | * | * | * |
| Cellosolve Acetate | U | * | * | * | E | * | * | * | * | * | * |
| Celluloid Solutions | U | U | * | * | E | * | * | * | * | * | * |
| Cellulose Acetate | U | G | U | U | E | * | * | * | U | * | E |
| Cellulose Viscose | * | * | * | * | E | * | * | * | * | * | * |
| Cellulube Hydraulic Oils | * | G | * | G | E | * | * | * | * | * | * |
| Cemene | U | U | * | * | E | * | * | * | * | * | * |
| Cement | E | E | * | E | * | * | * | * | * | * | * |
| China Wood Oil (Tung) | E | U | * | E | E | * | * | * | * | * | * |
| Chloracetic Acid | * | * | * | * | E | * | G | * | * | * | * |
| Chloride | G | G | * | G | E | * | * | * | * | * | * |
| Chlorinated Solvents | U | U | * | E | E | * | * | * | * | * | * |
| Chlorinated Water | * | * | * | * | E | * | G | * | * | * | * |
| Chlorine (wet) (dry) | U | U | E | G | E | * | * | * | U | * | * |
| Chlorine Dioxide | U | G | U | E | E | * | * | * | U | U | * |
| Chlorine Gas (Dry @ 70F) | U | G | * | G | E | * | U | * | U | U | U |
| Chlorine Gas (Wet) | U | U | U | G | E | * | U | * | U | U | G |
| Chlorine Water | U | U | U | G | E | * | E | * | U | * | U |
| Chlorine - Liquid | U | U | U | G | E | * | U | * | U | U | U |
| Chloroacetic Acid | U | E | * | U | E | * | * | * | * | * | * |
| Chloroacetone | U | U | * | * | E | * | * | * | * | * | * |
| Chloroacidic Acid | U | U | G | U | E | * | * | * | U | * | * |
| Chlorobenzene (90% @ 70F) | U | U | U | E | E | * | U | * | U | U | E |
| Chlorobrommethane | U | U | * | U | E | * | * | * | * | * | * |
| Chlorobutadiene | U | U | * | E | E | * | * | * | * | * | * |
| Chloroform (70F) | U | U | U | G | E | * | U | * | U | U | U |
| Chlorophenol sulf. ac. sol. | U | U | * | * | E | * | * | * | * | * | * |
| Chlorosulfonic Acid | U | U | U | U | E | * | U | * | U | * | U |

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|---|---|---|---|---|---|---|---|---|---|---|---|
| Chlorotoluene | U | U | * | G | E | * | * | * | * | * | * |
| Chlorox | G | E | * | * | * | * | * | * | * | * | * |
| Chocolate | U | U | * | G | E | * | E | * | * | * | * |
| Chrom-alum.solution | G | E | * | * | * | * | * | * | * | * | * |
| Chrome-alum.solutions | G | E | * | * | * | * | * | * | * | * | * |
| Chromic Acid (5% @ 70F) | U | U | * | E | E | * | * | * | * | * | * |
| Chromic Sulfate Solution | G | * | * | E | E | * | * | * | * | * | * |
| Cider | E | E | * | E | * | * | * | * | * | * | * |
| Citric Acid (5% @ 150F) | G | G | E | E | E | * | * | * | E | * | * |
| Citric Acid Solution | E | E | * | E | * | * | * | * | * | * | * |
| Citrus Juices | E | E | * | E | * | * | * | * | * | * | * |
| Coal Slurry | G | G | * | * | * | * | * | * | * | * | * |
| Cobalt Chloride (2n) | * | * | * | E | * | * | * | * | * | * | * |
| Coca Cola Syrup | * | * | * | * | * | * | * | * | * | * | * |
| Coconut Oil (Flood) | G | U | E | E | E | * | * | * | E | U | E |
| Cod Liver Oil | E | G | * | E | * | * | * | * | * | * | * |
| Coffee | U | G | E | E | E | * | * | * | G | * | * |
| Coffee Extract | E | G | * | E | * | * | * | * | * | * | * |
| Coke Oven Gas | U | E | E | E | E | * | * | * | * | * | U |
| Cooking Oil | E | U | * | E | * | * | * | * | * | * | * |
| Copper Acetate | G | E | G | U | E | * | * | * | U | * | * |
| Copper Arsenate (Basic) | E | E | * | E | * | * | * | * | * | * | * |
| Copper Chloride | E | E | E | E | E | * | E | * | E | E | E |
| Copper Chloride (dry) | G | E | * | E | * | * | * | * | * | * | * |
| Copper Cyanide | G | G | E | E | E | * | E | * | G | E | * |
| Copper Nitrate | E | E | E | E | E | * | E | * | E | * | E |
| Copper Plating Solution | G | E | * | E | * | * | * | * | * | * | * |
| Copper Silver Nitrate | * | * | * | * | E | * | E | * | * | * | * |
| Copper Sulphate (80% @ 175F) | E | E | E | E | E | * | E | * | E | E | * |
| Corn Oil | E | * | E | E | E | * | U | * | E | U | * |
| Corn Syrup | G | U | * | E | E | * | * | * | * | * | * |
| Cottonseed Oil | E | G | E | E | E | * | E | * | E | U | * |
| Creosol | U | U | U | G | E | * | E | * | U | * | * |
| Creosote | E | U | U | E | E | * | E | * | U | * | * |
| Cresylic Acid | U | U | G | G | E | * | * | * | * | * | * |
| Crude Oil - Sour | E | U | * | G | * | * | * | * | * | * | * |
| Crude Oil - Sweet | E | U | * | E | * | * | * | * | * | * | * |
| Cumene | U | G | U | E | E | * | * | * | U | * | * |
| Cupric Chloride | G | G | * | G | E | * | * | * | * | * | * |
| Cupric Nitrate | E | G | E | E | E | * | E | * | G | E | * |
| Cupric Sulfate | G | G | E | G | E | * | * | * | G | * | * |
| Cuprous Chloride | E | * | E | E | E | * | E | * | * | * | E |
| Cutting Oil-Emulsion | E | * | * | G | E | * | * | * | * | * | * |

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## Soft Goods Material Compatibility

| Fluid | BunaN | EPDM | Neoprene | Viton | PTFE | RTFE | UHMWPE | Polyurethane | Silicone | Nat. Rubber | Peek |
|---|---|---|---|---|---|---|---|---|---|---|---|
| Cyanide Plating Solution | U | E | * | * | * | * | * | * | * | * | * |
| Cyclohexane | G | U | U | G | E | * | E | * | U | U | U |
| Cyclohexanol | G | U | G | E | E | * | E | * | U | * | * |
| Cyclohexanone | U | P | U | U | E | * | E | * | U | * | * |
| Decalin | U | U | * | G | E | * | * | * | * | * | * |
| Decane | U | U | * | G | E | * | * | * | * | * | * |
| Detergents (soaps) | G | E | E | E | E | * | * | * | * | * | E |
| Developing Solutions | * | G | * | E | E | * | * | * | * | * | * |
| Dewaxing Oil - Hot | U | U | * | E | E | * | * | * | * | * | * |
| Dextrose (Food) | E | E | E | E | E | * | * | * | E | E | E |
| Diacetone | U | G | * | U | E | * | * | * | * | * | * |
| Diacetone Alcohol | U | E | U | U | E | * | * | * | U | * | * |
| Diamylamine | G | G | * | U | E | * | * | * | * | * | * |
| Dibenzyl Ether | U | P | U | U | E | * | * | * | U | * | * |
| Dibenzyl Sebacate | U | U | * | G | E | * | * | * | * | * | * |
| Dibutyl Amine | U | U | * | U | E | * | * | * | * | * | * |
| Dibutyl Phthlate | U | E | U | G | E | * | E | * | G | * | * |
| Dibutyl Sebacate | U | U | * | U | E | * | * | * | * | * | * |
| Dichloro Difluoro Methane | E | U | * | G | * | * | * | * | * | * | * |
| Dichloro Fluoro Methane | U | U | * | U | E | * | * | * | * | * | * |
| Dichlorobenzene | U | U | U | E | E | * | * | * | U | * | U |
| Dichloroethylene | U | U | E | E | E | * | * | * | G | * | U |
| Dichlorohexylamine | U | U | * | U | E | * | * | * | * | * | * |
| Diesel Fuel | E | U | G | E | E | * | E | * | U | U | E |
| Diethanolamine | G | * | E | U | E | * | * | * | U | * | * |
| Diethanolamine Solution | G | * | * | U | E | * | * | * | * | * | * |
| Diethyl Amine | G | G | * | G | E | * | * | * | * | * | * |
| Diethyl Ether | P | U | U | U | E | * | U | * | U | * | U |
| Diethyl Sebacate | U | G | * | E | E | * | * | * | * | * | * |
| Diethyl Stilboestrol | U | U | * | * | E | * | * | * | * | * | * |
| Diethylamine | G | U | E | * | E | * | * | * | U | E | U |
| Diethylene Glycol | G | G | E | E | E | * | * | * | * | * | E |
| Diisobutylene | G | * | * | E | E | * | * | * | * | * | * |
| Diisopropyl Ketone | U | U | * | U | E | * | * | * | * | * | * |
| Dimethyl Formamide | P | G | U | U | E | * | U | * | U | * | U |
| Dimethylaniline | U | G | U | U | E | * | U | * | U | * | * |
| Dioctyl Phthalate | U | G | U | G | E | * | U | * | P | U | * |
| Dioctyl Sebacate | U | G | U | U | E | * | * | * | * | U | * |
| Dioxane | U | G | U | U | E | * | E | * | U | U | * |
| Dioxolane | U | U | U | * | * | * | * | * | * | * | * |
| Dipentene (terpene-hydroc) | U | U | U | G | E | * | * | * | U | U | * |
| Diphenyl | U | U | * | E | E | * | * | * | * | * | * |
| Diphenyl Carbonate | E | * | * | E | * | * | * | * | * | * | * |

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|---|---|---|---|---|---|---|---|---|---|---|---|
| Diphenyl Oxide | U | U | U | E | E | * | * | * | E | U | * |
| Disodium Phosphate | E | E | U | E | E | * | * | * | * | * | E |
| Dowfume w-40 (Fumigant) | U | U | * | * | E | * | * | * | * | * | * |
| Dowtherms | U | U | E | * | E | * | * | * | E | U | * |
| Drilling Mud | E | U | * | * | E | * | * | * | * | * | * |
| Drying Oil | U | E | U | G | E | E | E | * | G | U | E |
| Dyes | G | * | * | * | E | * | * | * | * | * | * |
| Epichlorohydrin | U | U | * | * | E | * | * | * | * | * | * |
| Epoxy Resins | U | P | U | U | E | * | * | * | U | * | * |
| Epsom Salt | U | U | * | * | E | * | * | * | * | * | * |
| Ethane | E | E | * | * | E | * | * | * | * | * | * |
| Ethanol / Ethyl Alcohol | E | U | E | E | E | * | * | * | U | * | U |
| Ethanolamine | G | E | * | G | E | * | * | * | * | * | * |
| Ethereal Oils | G | G | E | U | E | * | * | * | * | * | * |
| Ethers | U | U | * | G | E | * | * | * | * | * | * |
| Etheylenene Diamine | U | U | U | U | E | * | U | * | U | U | * |
| Ethlyene Oxide | G | * | * | U | E | * | * | * | * | * | * |
| Ethyl Acetate | U | G | * | U | E | * | * | * | * | * | * |
| Ethyl Acetoacetate | U | G | U | U | E | * | G | * | U | U | U |
| Ethyl Aceylate | U | G | U | U | E | * | * | * | * | P | * |
| Ethyl Acrylate | U | U | * | U | E | * | * | * | * | * | * |
| Ethyl Alcohol / Ethanol | U | G | U | U | E | * | * | * | * | U | * |
| Ethyl Benzene | G | E | E | E | E | * | E | * | G | E | E |
| Ethyl Benzoate | U | U | U | E | E | * | U | * | U | U | * |
| Ethyl Butyrate | * | * | * | * | E | * | * | * | * | * | * |
| Ethyl Cellosolve | U | * | * | * | E | * | * | * | * | * | * |
| Ethyl Cellulose | * | * | * | * | E | * | * | * | * | * | * |
| Ethyl Chloride (5% @ 60F) | U | U | * | * | E | * | * | * | * | * | * |
| Ethyl Chloride (Dry) | E | E | * | * | E | * | * | * | * | * | * |
| Ethyl Chloride (Wet) | G | E | * | G | * | * | * | * | * | * | * |
| Ethyl Ether | G | E | * | G | * | * | * | * | * | * | * |
| Ethyl Formate | U | U | U | U | E | * | U | * | U | U | * |
| Ethyl Mercaptan | U | U | G | E | E | * | * | * | U | * | * |
| Ethyl Oxalate | U | U | E | E | E | * | * | * | * | * | * |
| Ethyl Pentachlorobenzene | U | P | U | E | E | * | * | * | U | * | * |
| Ethyl Silicate | U | U | U | * | * | * | * | * | * | * | * |
| Ethylene | G | E | * | E | * | * | * | * | * | * | * |
| Ethylene Bromide | G | * | * | G | E | * | * | * | * | * | * |
| Ethylene Chloride | U | U | P | G | E | * | * | * | U | U | * |
| Ethylene Chlorohydrin | U | P | U | G | E | * | U | * | U | * | * |
| Ethylene Dichloride | U | G | P | E | E | * | U | * | P | U | * |
| Ethylene Dichloride (dry) | U | U | U | E | E | * | U | * | U | * | * |
| Ethylene Glycol | U | U | U | U | E | * | U | * | U | * | * |

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|---|---|---|---|---|---|---|---|---|---|---|---|
| Ethylene Oxide | G | E | * | E | E | * | E | * | * | * | * |
| Ethylene Trichloride | U | G | U | U | E | * | U | * | U | U | * |
| Fatty Acids | U | U | * | E | E | * | * | * | * | * | * |
| Feran | E | P | G | E | E | * | E | * | U | U | * |
| Ferric Chloride | U | U | * | * | E | * | * | * | * | * | * |
| Ferric Nitrate (PH &+. 5% @ 60F) | G | G | E | E | E | * | E | * | E | E | * |
| Ferric Sulphate (5% @ 60F) | G | G | * | E | E | * | * | * | * | * | * |
| Ferrous Ammonium | E | E | E | E | E | * | * | * | E | * | U |
| Ferrous Chloride | * | * | U | E | E | * | * | * | E | * | * |
| Ferrous Sulphate | E | E | E | E | E | * | E | * | E | E | E |
| Fertizer Solutions | E | E | E | E | E | * | * | * | E | E | E |
| Fireblotting Foam | G | E | * | * | E | * | * | * | * | * | * |
| Fish Solutions | E | U | * | G | E | * | * | * | * | * | * |
| Florine Gas (dry) | E | U | E | U | E | * | E | * | * | * | * |
| Fluid Resins | * | * | * | E | * | * | * | * | * | * | * |
| Fluoboric Acid | U | U | * | * | E | * | * | * | * | * | * |
| Fluorine (70F) | G | G | E | E | E | * | E | * | * | E | * |
| Fluorobenzene | G | * | * | U | * | * | * | * | * | * | * |
| Fluorocarbon Oil | U | U | * | E | E | * | * | * | * | * | * |
| Fluosilicic Acid | * | U | * | * | E | E | * | * | * | * | * |
| Formaldehyde (70F) | G | E | E | U | E | * | U | * | U | G | * |
| Formamide | U | G | E | U | E | * | * | * | E | U | * |
| Formic Acid (5% @ 150F) | G | * | * | G | E | * | * | * | * | * | * |
| Freon 11 | U | E | E | E | E | * | E | * | U | * | * |
| Freon 113 | G | U | E | E | E | * | U | * | U | U | * |
| Freon 114 | G | U | E | E | E | * | * | * | U | * | * |
| Freon 11482 | G | G | * | * | E | * | * | * | * | * | * |
| Freon 115 | G | U | * | E | E | * | * | * | * | * | * |
| Freon 12 | E | * | * | E | * | * | * | * | * | * | * |
| Freon 13 | G | U | E | G | E | * | U | * | U | U | * |
| Freon 1381 | E | * | * | E | * | * | * | * | * | * | * |
| Freon 21 | E | * | * | * | * | * | * | * | * | * | * |
| Freon 22 | U | U | P | U | E | * | * | * | U | * | * |
| Freon 502 | U | E | E | G | E | * | * | * | U | U | * |
| Freon c 318 | U | * | * | * | E | * | * | * | * | * | * |
| Fruit Juices | E | * | * | G | * | * | * | * | * | * | * |
| Fruit Juices (Food) 70F | E | E | * | E | * | * | E | * | E | * | * |
| Fuel - Jet (JP.1 to JP.5) | G | G | * | * | E | * | * | * | * | * | * |
| Fuel Oil | G | U | * | G | * | * | * | * | * | * | * |
| Furan | E | U | G | E | E | * | E | * | U | U | E |
| Furfural | U | U | * | * | E | * | * | * | * | * | * |
| Gallic Acid (5% @ 200F) | U | G | E | U | E | * | U | * | U | U | * |
| Gas - Coke Oven | G | E | G | E | E | * | E | * | * | U | * |

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|---|---|---|---|---|---|---|---|---|---|---|---|
| Gas - Furnace | E | E | E | E | E | * | U | * | E | U | E |
| Gas - Illuminating | E | U | * | E | E | * | U | * | * | * | * |
| Gas - Manufactured | E | U | * | E | * | * | * | * | * | * | * |
| Gas (Natural) | E | U | * | E | * | * | * | * | * | * | * |
| Gasahol (Ethanol) | E | U | * | E | E | * | * | * | E | * | U |
| Gasoline | E | U | G | E | E | * | U | * | E | * | U |
| Gelatin (Food) | U | U | E | P | E | * | * | * | E | * | * |
| Glacial Acetic Acid | G | U | * | E | E | * | * | * | * | * | * |
| Glucose | G | G | E | E | E | * | * | * | G | E | E |
| Glue | U | U | * | U | E | * | * | * | * | * | * |
| Glycerine / Glycerol | E | E | E | E | E | * | * | * | E | E | E |
| Glycois | E | E | E | E | E | * | * | * | E | E | U |
| Glycols | E | E | E | E | E | * | E | * | E | E | E |
| Grease | E | E | * | E | E | * | E | * | * | * | * |
| Green Sulfate Liquor | E | E | E | E | E | * | E | * | E | E | U |
| Helium | E | U | * | E | * | * | * | * | * | * | * |
| Heptane | G | E | E | E | E | * | * | * | E | * | * |
| Hexaldehyde | E | E | * | E | * | * | * | * | * | * | * |
| Hexane | E | U | G | E | E | * | E | * | U | U | U |
| Hexyl Alcohol | U | G | * | * | E | * | * | * | * | * | * |
| Hexylene Glycol | E | U | G | E | E | * | U | * | U | U | U |
| Hydraulic Oil (Cellulube) | E | G | * | G | E | * | * | * | * | * | * |
| Hydraulic Oil (Petr.Base) | E | * | * | * | E | * | * | * | * | * | * |
| Hydraulic Oil / WaterBase | * | G | * | E | E | * | * | * | * | * | * |
| Hydraulic Oils | E | U | * | E | * | * | * | * | * | * | * |
| Hydrobromic Acid 200F | E | * | * | E | * | * | * | * | * | * | * |
| Hydrochloric Acid (10% @ 60F) | G | U | * | E | E | * | * | * | * | * | * |
| Hydrochloric Acid (20% @ 60F) | U | G | * | E | E | * | * | * | * | * | * |
| Hydrochloric Acid (35% @ 60F) | U | E | * | E | E | * | * | * | * | * | * |
| Hydrocyanic Acid | U | G | U | E | E | * | E | * | G | E | U |
| Hydrofluoric Acid 100% | U | G | U | E | E | * | E | * | G | E | U |
| Hydrofluoric Acid 48% | U | E | * | E | E | * | * | * | * | * | * |
| Hydrofluoric Acid 60% | U | U | U | U | E | * | * | * | G | U | U |
| Hydrofluosilic Acid (5% @ 70F) | U | U | U | P | E | * | * | * | G | * | * |
| Hydrogen | U | U | U | U | E | * | * | * | G | * | * |
| Hydrogen Peroxide 90% | G | G | * | G | E | * | * | * | * | * | * |
| Hydrogen Sulfide - Dry | E | E | E | E | E | * | E | * | E | U | * |
| Hydrogen Sulfide - Wet | U | P | U | E | E | * | U | * | G | U | E |
| Hydroguinone | U | G | E | U | E | * | E | * | U | U | E |
| Hypo / Sodium Thiosulphate | U | G | E | E | E | * | E | * | U | U | E |
| Hypochlorite | U | U | E | E | E | * | * | * | E | * | * |
| Hypochlorous Acid | G | E | * | E | * | * | * | * | * | * | * |
| Ink | U | U | * | G | E | * | * | * | * | * | * |

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|---|---|---|---|---|---|---|---|---|---|---|---|
| Iodine | U | E | U | E | E | * | * | * | E | E | * |
| Iodine Solution | E | U | * | E | E | * | * | * | * | * | * |
| Isoamylakcohol | G | E | U | E | E | * | E | * | E | U | * |
| Isobutric Acid Soln | U | G | * | E | E | * | * | * | * | * | * |
| Isobutyl Alcohol | G | G | * | E | E | * | * | * | * | * | * |
| Isooctane | G | U | * | * | E | * | * | * | * | * | * |
| Iso-Octane | U | E | * | E | E | * | * | * | * | * | * |
| Isopropyl Acetate | E | U | E | E | E | * | * | * | E | U | * |
| Isopropyl Alcohol | E | U | * | E | E | * | * | * | * | * | * |
| Isopropyl Chloride | U | G | U | U | E | * | * | * | G | U | * |
| Isopropyl Ether | U | E | E | E | E | * | E | * | E | * | * |
| Jet Fuel (JP 3-6) | U | U | * | E | E | * | * | * | * | * | * |
| Jet Fuel (JP1 thru JP5) | E | U | U | U | E | * | U | * | U | U | * |
| Kerosene | E | U | E | E | E | * | * | * | U | * | * |
| Kerosene - Deodorized | E | U | U | E | E | * | * | * | U | * | * |
| Ketchup | E | U | G | E | E | * | U | * | U | * | U |
| Ketones | G | U | * | E | E | * | * | * | * | * | * |
| Lacquer Solvents | E | E | * | E | E | * | * | * | E | * | * |
| Lactic Acid (5% @ 70F) | U | U | * | U | E | * | * | * | * | * | * |
| Lard (Animal Fat) | U | U | * | U | E | * | * | * | * | * | * |
| Lard Oil 70F | U | G | * | E | E | * | * | * | * | * | * |
| Latex Stripped (No Arom.) | E | U | P | E | * | * | * | * | P | * | * |
| Latex Unstripped (Arom.) | E | U | P | E | E | * | E | * | P | U | * |
| Latex-Emulsion | E | U | * | E | * | * | * | * | * | * | * |
| Lavender Oil | U | U | * | G | E | * | * | * | * | * | * |
| Lead Acetate | * | U | * | * | E | * | * | * | * | * | * |
| Lead Nitrate | U | U | * | * | E | * | * | * | * | * | * |
| Lead Sulfamate | E | E | E | U | E | * | E | * | U | G | * |
| Lead Sulfate | G | E | E | E | E | * | E | * | G | G | * |
| Lead Sulfide | * | G | * | G | E | * | * | * | * | * | * |
| Lemon Oil | G | G | E | E | E | * | * | * | * | * | * |
| Ligroin | * | * | * | * | E | * | E | * | * | * | * |
| Lime Bleach | G | * | * | * | E | * | * | * | * | * | * |
| Lime Sulfur | G | * | * | G | E | * | * | * | * | * | * |
| Lime - Calc. Hydrox. Soln | G | G | * | G | E | * | * | * | * | * | * |
| Linoleic Acid | U | G | E | E | E | * | U | * | G | U | * |
| Linseed Oil | G | E | * | G | E | * | G | * | * | * | * |
| Liquor (Black Sulphate) | G | U | P | E | E | * | * | * | P | U | * |
| Liquors (Beet Sugar) | G | U | P | E | E | * | E | * | G | U | * |
| Liquors (Cane Sugar) | E | U | * | E | E | * | * | * | * | * | * |
| Lubricating Oil | E | E | * | E | E | * | * | * | * | * | * |
| Lye | E | E | * | E | E | * | * | * | * | * | * |
| Magnesium Ammonium Sulf. | E | U | G | E | E | * | U | * | U | U | * |

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## Soft Goods Material Compatibility

| Fluid | BunaN | EPDM | Neoprene | Viton | PTFE | RTFE | UHMWPE | Polyurethane | Silicone | Nat. Rubber | Peek |
|---|---|---|---|---|---|---|---|---|---|---|---|
| Magnesium Bisulfate | * | G | * | * | E | * | * | * | * | * | * |
| Magnesium Carbonate | * | * | * | * | E | * | * | * | * | * | * |
| Magnesium Chloride (4% @ 75F) | E | E | * | E | * | * | * | * | * | * | * |
| Magnesium Hydroxide | E | E | E | E | * | * | E | * | E | * | * |
| Magnesium Nitrate | E | E | * | E | E | * | * | * | * | * | * |
| Magnesium Oxide | G | E | E | E | E | * | E | * | E | E | U |
| Magnesium Sulphate (5% @ 120F) | E | G | E | E | E | * | E | * | * | E | * |
| Maleic Acid | * | G | * | * | E | * | * | * | * | * | * |
| Maleic Acid Anhydride | E | E | * | E | E | * | * | * | * | * | * |
| Maleic Anhydride Soln. | G | G | U | E | E | * | E | * | U | U | U |
| Malic Acid | U | U | U | P | E | * | * | * | * | U | * |
| Manganese Chloride | G | * | * | E | E | * | * | * | * | * | * |
| Mash (Breweries) | E | U | E | E | E | * | E | * | G | U | * |
| Mercaptans | G | * | E | E | E | * | U | * | * | * | E |
| Mercuric Chloride (3% @ 60F) | G | E | * | E | * | * | * | * | * | * | * |
| Mercuric Cyanide | U | U | * | G | E | * | * | * | * | * | * |
| Mercurous Nitrate (pH7+) | G | E | * | E | E | * | * | * | * | * | * |
| Mercury | G | G | U | E | E | * | * | * | E | E | E |
| Mesityl Oxide | U | E | * | U | E | * | E | * | * | E | * |
| Methacrylates | E | E | E | E | E | * | E | * | E | E | * |
| Methacrylic Esters | U | G | * | * | E | * | * | * | * | * | * |
| Methane - Liquid | U | U | * | U | E | * | * | * | * | * | * |
| Methane - Gas | U | U | * | U | E | * | * | * | * | * | * |
| Methanol | E | E | E | E | E | * | U | * | E | U | E |
| Methyl Acetate | U | G | * | E | E | * | E | * | * | * | * |
| Methyl Acetone | U | G | * | U | E | * | * | * | * | * | * |
| Methyl Alcohol | U | G | U | U | E | * | * | * | U | * | * |
| Methyl Amine | U | G | E | U | E | * | * | * | U | * | * |
| Methyl Bromide | E | E | E | U | E | * | E | * | E | E | U |
| Methyl Butyl Ketone | U | * | U | U | E | * | * | * | U | * | * |
| Methyl Cellosolve | U | U | E | E | E | * | U | * | G | U | * |
| Methyl Chloride | U | U | * | U | E | * | * | * | * | * | * |
| Methyl Ethyl Keton | U | G | U | U | E | * | * | * | * | * | * |
| Methyl Ethyl Ketone | U | U | U | E | E | * | U | * | U | * | * |
| Methyl Formate | U | G | * | U | E | * | * | * | * | * | * |
| Methyl Isobutyl Carbinol | U | G | U | U | E | * | U | * | U | * | E |
| Methyl Isobutyl Ketone | U | G | P | U | E | * | * | * | U | * | * |
| Methyl Methacrylate | G | * | U | G | E | * | * | * | * | * | * |
| Methyl Oleate | U | G | U | U | E | * | * | * | U | U | * |
| Methyl Propyl Ketone | U | U | * | U | E | * | * | * | * | * | * |
| Methyl Salicylate | * | G | * | G | E | * | * | * | * | * | * |
| Methylene Bromide | U | U | * | U | E | * | * | * | * | * | * |
| Methylene Chloride | U | U | E | * | E | * | * | * | G | U | * |

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| Fluid | BunaN | EPDM | Neoprene | Viton | PTFE | RTFE | UHMWPE | Polyurethane | Silicone | Nat. Rubber | Peek |
|---|---|---|---|---|---|---|---|---|---|---|---|
| Milk (Food) | U | U | * | G | E | * | * | * | * | * | * |
| Milk of Lime | U | U | U | U | E | * | U | * | U | U | * |
| Mine Water - Acidic | G | E | E | E | E | * | E | * | E | * | * |
| Mine Water - Acidic-Salts | U | U | * | G | E | * | * | * | * | * | * |
| Mineral Oil | E | E | * | E | E | * | E | * | * | * | * |
| Mixed Acids / Nitric Sulf. | E | E | * | E | * | * | E | * | * | * | * |
| Molasses (Food) | G | U | E | E | E | * | U | * | E | U | * |
| Monobromobenzene | P | E | U | E | * | * | * | * | G | * | * |
| Monochloroacetic Acid | G | G | * | E | E | * | E | * | * | E | * |
| Monochlorobenzen | U | U | U | E | E | * | U | * | U | U | E |
| Monoethanolamine | U | U | * | G | E | * | * | * | * | * | * |
| Monomethylaniline | U | U | * | G | E | * | * | * | * | * | * |
| Muriatic Acid | U | G | E | E | E | * | * | * | G | G | * |
| Mustard | U | U | * | G | E | * | * | * | * | * | * |
| Naphtenic Acid | U | U | U | E | E | * | * | * | U | * | * |
| Naptha | * | * | * | * | E | * | * | * | * | * | * |
| Napthalene | U | U | * | E | E | * | * | * | * | * | * |
| N-Butylacetate | G | U | U | E | E | * | U | * | U | * | E |
| Nickel Acetate | U | U | U | G | E | * | U | * | U | U | * |
| Nickel Ammonium Sulphate | U | U | * | * | E | * | * | * | * | * | * |
| Nickel Chloride | E | E | E | U | E | * | * | * | U | * | * |
| Nickel Nitrate | E | E | * | * | E | * | * | * | * | * | * |
| Nickel Sulphate (10% @ 60F) | E | E | E | E | E | * | E | * | E | E | * |
| Nicotin Sulfate | G | E | E | E | E | * | E | * | E | E | * |
| Nitric Acid (10% @ 70F) | G | E | * | E | E | * | * | * | * | * | * |
| Nitric Acid (30% @ 70F) | U | * | U | * | E | * | E | * | E | * | * |
| Nitric Acid (60% @ 175F) | U | G | U | E | E | * | E | * | U | U | E |
| Nitric Acid 70% | U | G | U | E | E | * | E | * | U | U | E |
| Nitrobenzene | U | U | * | E | E | * | * | * | * | * | * |
| Nitroethane | U | U | U | E | E | * | U | * | U | * | * |
| Nitrogen - Gas | U | G | U | U | E | * | U | * | U | U | * |
| Nitrogen - Liquid | U | G | * | * | E | * | * | * | * | * | * |
| Nitroglycerine | E | E | * | E | * | * | * | * | * | * | * |
| Nitroglycol | U | U | * | U | E | * | * | * | * | * | * |
| Nitromethane | U | E | * | E | E | * | * | * | * | * | * |
| Nitrous Acid 10% | U | E | * | E | E | * | * | * | * | * | * |
| Nitrous Oxide | U | U | U | U | E | * | G | * | U | U | * |
| Octadecane | U | E | E | U | E | * | * | * | E | * | * |
| Octane | U | G | U | E | E | * | * | * | G | * | * |
| Octanol / Octyl Alcohol | G | U | * | G | E | * | * | * | * | * | * |
| Octyl Alcohol | G | U | E | E | E | * | * | * | G | * | * |
| Oil - ASTM #1 | G | E | * | E | * | * | * | * | * | * | * |
| Oil - ASTM #3 | G | U | * | G | E | * | * | * | * | * | * |

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|---|---|---|---|---|---|---|---|---|---|---|---|
| Oil - SAE #10 | E | U | * | E | E | * | * | * | * | * | * |
| Oil (Crude) | E | U | * | E | E | * | * | * | * | * | * |
| Oil (Diesel) | E | U | * | E | E | * | * | * | * | * | * |
| Oil (Fuel - ASTM Ref.A) | E | U | * | E | E | * | * | * | * | * | * |
| Oil (Fuel - ASTM Ref.B) | G | U | * | G | E | * | * | * | * | * | * |
| Oil (Fuel - ASTM Ref.C) | E | U | * | E | E | * | * | * | * | * | * |
| Oil (Fuel) | G | U | * | E | E | * | * | * | * | * | * |
| Oils & Fats | G | U | * | E | E | * | * | * | * | * | * |
| Oils - Fish | G | U | * | * | E | * | * | * | * | * | * |
| Oleic Acid 100F | E | U | E | E | E | * | U | * | * | * | * |
| Oleum | G | U | * | * | E | * | * | * | * | * | * |
| Olive Oil | G | G | * | G | E | * | * | * | * | * | * |
| Oxalic Acid | G | U | U | E | E | * | * | * | U | U | * |
| Oxygen | E | U | E | E | E | * | E | * | * | U | * |
| Ozone | U | E | * | G | E | * | * | * | * | * | * |
| Paint (Inseed) | E | E | E | E | E | * | U | * | * | U | * |
| Paint - Synthetic | U | E | E | E | E | * | U | * | E | U | E |
| Paint - Thinners | E | U | * | E | * | * | * | * | * | * | * |
| Palmitic Acid | U | U | * | G | E | * | * | * | * | * | * |
| Paraffin | U | U | * | U | E | * | * | * | * | * | * |
| Paraformaldehyde | G | E | U | E | E | * | * | * | U | * | * |
| Pentachlorophenol | E | * | * | E | E | * | * | * | E | * | U |
| Pentane | U | E | * | U | * | * | * | * | * | * | * |
| Perchlorethylene | U | U | * | E | E | * | * | * | * | * | * |
| Perchloric Acid | E | U | E | G | G | * | * | * | * | U | * |
| Petrolatum | U | U | U | E | E | * | * | * | U | U | U |
| Petroleum - Refined | U | G | * | E | E | * | * | * | * | * | * |
| Petroleum Sour | E | U | E | G | E | * | * | * | G | * | * |
| Phenol | G | U | E | E | E | * | U | * | E | U | * |
| Phenolates (di-nitrols) | P | U | P | E | E | * | U | * | G | * | * |
| Phenyl Ethyl Ether | U | U | U | E | E | * | G | * | U | U | E |
| Phenylbenzene | U | U | * | E | E | * | * | * | * | * | * |
| Phenylethyl Ether | U | U | * | U | E | * | * | * | * | * | * |
| Phenylhydrazine | U | U | * | G | E | * | * | * | * | * | * |
| Phorone | U | U | * | U | E | * | * | * | * | * | * |
| Phosphoric Acid (10% @ 70F) | U | P | U | E | E | * | * | * | * | P | * |
| Phosphoric Acid (25% @ 70F) | U | G | * | * | E | * | * | * | * | * | * |
| Phosphoric Acid (75% @ 70F) | G | E | G | E | E | * | E | * | U | E | E |
| Phosphorus Oxychloride | U | E | G | E | E | * | E | * | U | E | E |
| Phosphorus Trichloride | U | E | P | E | E | * | * | * | U | * | * |
| Photographic Solutions | U | * | U | U | E | * | U | * | * | * | * |
| Phthalic Acid | U | G | U | E | E | * | E | * | * | * | * |
| Phthalic Anhydride | E | * | E | E | E | * | E | * | G | E | * |

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|---|---|---|---|---|---|---|---|---|---|---|---|
| Pickling Solution (20%Nitric-4H | U | * | E | G | E | * | U | * | * | * | E |
| Picric Acid (80% @ 70F) | U | U | E | E | E | * | * | * | G | E | * |
| Pine Oil | * | U | * | E | E | * | * | * | * | * | * |
| Pineapple Juice | U | G | * | E | E | * | * | * | * | * | * |
| Pinene | G | U | * | E | E | * | * | * | * | * | * |
| Piperazine | E | E | * | * | * | * | * | * | * | * | * |
| Piperidine (Heterocyclic) | U | U | * | E | E | * | * | * | * | * | * |
| Plating Soln (Crom/ni) | U | U | * | * | * | * | * | * | * | * | * |
| Plating Solutions | U | U | * | U | E | * | * | * | * | * | * |
| Poly Vinyl Chloride Res | U | E | * | G | * | * | * | * | * | * | * |
| Polyvinyl Acetate | * | G | * | G | E | * | * | * | * | * | * |
| Potash - Caustic | U | U | * | E | E | * | * | * | * | * | * |
| Potassium Acetate | U | G | E | U | E | * | * | * | * | * | * |
| Potassium Bicarbonate | * | G | * | * | E | * | * | * | * | * | * |
| Potassium Bisulfate | G | E | * | U | E | * | U | * | U | E | * |
| Potassium Bisulfite | E | E | * | E | * | * | * | * | * | * | * |
| Potassium Borate | E | E | E | E | E | * | * | * | E | * | * |
| Potassium Bromide | G | E | * | E | * | * | * | * | * | * | * |
| Potassium Carbonate | E | E | E | E | * | * | E | * | E | * | * |
| Potassium Carbonate Water | E | E | * | E | E | * | * | * | * | * | * |
| Potassium Chlorate | E | E | * | E | E | * | * | * | * | * | * |
| Potassium Chloride | E | E | * | E | E | * | * | * | * | * | * |
| Potassium Chromate | G | E | * | E | E | * | * | * | * | * | * |
| Potassium Cyanide | E | E | E | E | E | * | E | * | E | E | U |
| Potassium Dichromate | G | E | U | E | E | * | E | * | E | * | * |
| Potassium Ferricyanide | E | E | E | E | E | * | * | * | E | E | E |
| Potassium Ferrocyanide | U | E | * | E | E | * | * | * | * | * | * |
| Potassium Hydroxide (5% @ 70F) | E | E | E | E | E | * | E | * | E | * | * |
| Potassium Iodide | E | E | E | E | E | * | E | * | E | * | * |
| Potassium Nitrate (6% @ 68F) | E | E | E | E | E | * | E | * | E | E | U |
| Potassium Permanganate | E | E | * | * | E | * | * | * | * | * | * |
| Potassium Phosphate | G | E | * | E | E | * | * | * | * | * | * |
| Potassium Sulfide | U | E | * | * | E | * | * | * | * | * | * |
| Potassium Sulfite | E | E | * | E | E | * | * | * | * | * | * |
| Potassium Sulphate (7% @ 180F) | E | E | E | U | E | * | E | * | * | * | * |
| Potassium Thiosulfate | U | E | E | E | E | * | E | * | * | * | * |
| Producer Gas | E | E | * | E | E | * | * | * | * | * | * |
| Propane | E | E | * | E | * | * | * | * | * | * | * |
| Propionaldehyde | E | * | * | E | * | * | * | * | * | * | * |
| Propionic Acid | G | U | G | E | E | * | U | * | U | U | G |
| Propionitrile | * | * | * | * | E | * | * | * | * | * | * |
| Propyl Acetate | E | E | U | * | E | * | E | * | E | * | * |
| Propyl Alcohol | * | * | * | E | * | * | * | * | * | * | * |

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|---|---|---|---|---|---|---|---|---|---|---|---|
| Propyl Nitrate | U | G | U | * | E | * | * | * | U | U | * |
| Propylene | E | E | E | E | E | * | E | * | E | * | U |
| Propylene Dichloride | U | G | U | U | E | * | * | * | U | * | * |
| Propylene Glycol | E | E | * | * | E | * | * | * | * | * | * |
| Propylene Oxide | U | U | U | U | E | * | U | * | * | * | * |
| Pydraul | G | G | E | E | E | * | E | * | E | * | * |
| Pyridine 150F | U | G | U | U | E | * | * | * | U | U | * |
| Pyrrole | U | U | * | G | E | * | * | * | * | * | * |
| Quaternary Ammon Soln | U | G | U | U | E | * | U | * | U | U | * |
| Rayon Viscose | U | * | * | * | E | * | * | * | * | * | * |
| Resins & Rosins | * | * | * | * | E | * | * | * | * | * | * |
| Rosin Oil | * | * | * | * | E | * | * | * | * | * | * |
| Rotenone & Water | * | * | * | E | E | * | * | * | * | * | * |
| Rum | U | U | * | * | E | * | * | * | * | * | * |
| Sal Soda Ash | E | * | * | * | * | * | * | * | * | * | * |
| Salicylic Acid | E | E | * | E | * | * | * | * | * | * | * |
| Sea Water | E | E | * | E | * | * | * | * | * | * | * |
| Sewage | G | E | P | E | E | * | * | * | * | U | * |
| Sewwage | E | E | * | E | E | * | E | * | * | * | * |
| Shellac - Bleached | E | E | * | E | E | * | * | * | * | * | * |
| Silicone Greases | E | E | * | E | * | * | * | * | * | * | * |
| Silicone Oils | G | * | * | * | E | * | * | * | * | * | * |
| Silver Cyanide | E | E | * | E | E | * | * | * | * | * | * |
| Silver Nitrate | E | E | E | E | E | * | E | * | E | U | * |
| Silver Sulfate | E | E | * | E | E | * | E | * | E | * | * |
| Skydrol 500 | E | E | E | E | E | * | E | * | E | E | * |
| Soap Solution (Stearate) 70F | * | E | * | E | E | * | * | * | * | * | * |
| Soap - Liquid | U | E | * | E | E | * | * | * | * | * | * |
| Soaps (Detergents) | E | E | * | E | E | * | * | * | * | * | * |
| Sodium Acetate (5% @ 75F) | E | E | * | E | * | * | * | * | * | * | * |
| Sodium Acid Sulfate Soln | E | E | * | E | * | * | * | * | * | * | * |
| Sodium Aluminate | G | E | E | U | E | * | E | * | * | U | * |
| Sodium Bicarbonate | * | * | * | * | E | * | * | * | * | * | * |
| Sodium Bichromate Soln | E | E | E | E | E | * | * | * | E | * | * |
| Sodium Bisulfate | E | E | * | E | E | * | * | * | * | * | * |
| Sodium Bisulfite | * | * | * | E | E | * | * | * | * | * | * |
| Sodium Bisulphite - Watery | E | E | E | E | E | * | E | * | E | E | * |
| Sodium Borate | E | E | E | E | E | * | E | * | E | E | * |
| Sodium Borate (Borax) | U | U | * | U | E | * | * | * | * | * | * |
| Sodium Bromide | E | E | E | E | * | * | E | | E | | |
| Sodium Carbonate (80% @ 60F) | E | E | * | E | * | * | * | * | * | * | * |
| Sodium Chlorate | U | U | G | U | E | * | E | * | * | * | * |
| Sodium Chloride (30% @ 180F) | E | E | * | E | E | * | * | * | * | * | * |

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|---|---|---|---|---|---|---|---|---|---|---|---|
| Sodium Chromate | E | G | E | E | E | * | E | * | E | E | * |
| Sodium Cyanide | E | E | * | E | E | * | * | * | * | * | * |
| Sodium Dichromate | G | E | * | E | * | * | * | * | * | * | * |
| Sodium Fluoride | E | E | E | E | E | * | E | * | E | E | * |
| Sodium Hydroxide 20% | E | E | G | E | E | * | E | * | G | * | * |
| Sodium Hydroxide 5% | E | E | E | E | E | * | E | * | * | * | * |
| Sodium Hydroxide 50% | G | E | * | U | E | * | * | * | * | * | * |
| Sodium Hydroxide 70% | G | E | E | G | E | * | * | * | U | * | * |
| Sodium Hypochlorite (5% @ 60F) | U | G | E | U | E | * | E | * | U | E | E |
| Sodium Iodide | G | E | E | G | E | * | E | * | U | E | E |
| Sodium Metaphosphate | U | E | * | G | E | * | * | * | * | * | * |
| Sodium Metasilicate | E | E | E | * | E | * | * | * | E | * | * |
| Sodium Nitrate (30% @ 60F) | E | E | E | E | E | * | U | * | E | * | * |
| Sodium Nitrite | G | E | E | E | E | * | * | * | E | * | * |
| Sodium Perborate | G | E | * | G | E | * | * | * | * | * | * |
| Sodium Perchlorate | E | E | E | E | E | * | * | * | E | * | * |
| Sodium Peroxide | G | E | * | E | E | * | * | * | * | * | * |
| Sodium Phenolate Soln | E | * | E | E | E | * | U | * | * | E | E |
| Sodium Phosphate (5% @ 60F) | G | E | U | E | E | * | E | * | U | * | * |
| Sodium Silicate | * | * | * | * | E | * | * | * | * | * | * |
| Sodium Sulfide (5% @ 70F) | G | E | * | E | E | * | * | * | * | * | * |
| Sodium Sulfide (70% @ 70F) | E | E | E | E | E | * | E | * | E | E | * |
| Sodium Sulphate (80% @ 60F) | G | E | * | E | E | * | * | * | * | * | * |
| Sodium Tetra bor. Slurry | U | E | * | E | E | * | * | * | * | * | * |
| Sodium Thiosulfate | E | E | * | E | E | * | * | * | * | * | * |
| Stannic Chloride | E | E | * | E | * | * | * | * | * | * | * |
| Stannous Chloride | E | E | E | E | E | * | E | * | E | E | * |
| Starch Solutions | E | E | E | E | E | * | E | * | E | E | * |
| Steam 225F | G | G | E | E | E | * | E | * | E | E | * |
| Steam 300F | E | E | * | E | * | * | * | * | * | * | * |
| Stearic Acid (90% @ 200F) | U | E | * | U | * | * | * | * | * | * | * |
| Stoddard's Solvent | U | * | * | U | * | * | * | * | * | * | * |
| Styrene | E | G | * | E | E | * | * | * | * | * | * |
| Sulferous Acid | E | U | U | E | E | * | * | * | U | * | * |
| Sulfur | U | U | E | E | E | * | * | * | U | * | U |
| Sulfur Chloride | * | * | * | * | E | * | E | * | * | * | * |
| Sulfur Dioxide - Wet | U | G | E | U | E | * | E | * | E | U | E |
| Sulfur Dioxide - DryE | U | U | U | E | E | * | * | * | E | * | * |
| Sulfuric Acid | U | E | U | G | E | E | E | * | G | U | E |
| Sulfuric Acid (0-7%)70F | U | E | U | G | E | * | E | * | G | U | E |
| Sulfuric Acid (40-75%) 70F | * | * | * | * | E | * | * | * | * | * | * |
| Sulfuric Acid (7-40%)70F | U | G | * | E | E | * | * | * | * | * | * |
| Sulfuric Acid (75-95%) | U | U | * | E | E | * | * | * | * | * | * |

| Code | Description |
|---|---|
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| U | Unsatisfactory |
| * | No Information Available |

## Soft Goods Material Compatibility

| Fluid | BunaN | EPDM | Neoprene | Viton | PTFE | RTFE | UHMWPE | Polyurethane | Silicone | Nat. Rubber | Peek |
|---|---|---|---|---|---|---|---|---|---|---|---|
| Sulfuric Acid (95-100%) | U | G | * | E | E | * | * | * | * | * | * |
| Sulfuric Acid - Fuming | U | U | * | G | E | * | * | * | * | * | * |
| Sulfuric Acid - Oleum | U | U | * | G | E | * | * | * | * | * | * |
| Sulfurous Acid | U | U | U | U | E | * | U | * | U | * | U |
| Sulphur (Molten) | U | U | * | U | E | * | * | * | * | * | |
| Sulphur Dioxide 60F | U | U | U | E | E | * | E | * | U | * | E |
| Sulphur Trioxide | U | E | * | G | E | * | * | * | * | * | * |
| Sulphurour Acid (80% @ 100F) | U | * | * | U | E | * | * | * | * | * | * |
| Tall Oil | U | U | * | G | E | * | * | * | * | * | * |
| Tallow - Animal Fats | U | U | * | E | E | * | * | * | * | * | * |
| Tannic Acid (Tannin) | G | U | U | * | E | * | * | * | * | U | * |
| Tannic Acid 150F | E | U | * | E | * | * | * | * | * | * | * |
| Tannin | G | E | * | E | * | * | * | * | * | * | * |
| Tanning Liquors | E | E | * | E | E | * | U | * | E | U | * |
| Tar | G | E | * | E | * | * | * | * | * | * | * |
| Tartaric Acid 150F | G | E | E | E | E | * | * | * | E | G | * |
| Terpineol | G | U | E | E | E | * | U | * | E | * | * |
| Tetrachlorethane | E | G | * | E | E | * | * | * | * | * | * |
| Tetraethyl Lead | U | U | * | E | E | * | * | * | * | * | * |
| Tetrahydrofuran | U | U | U | E | E | * | U | * | U | U | * |
| Tetralin | G | U | G | E | E | * | * | * | * | * | * |
| Thionyl Chloride | U | U | U | U | E | * | U | * | U | U | * |
| Thiophene (Heterocyclic) | U | U | U | E | E | * | U | * | U | U | * |
| Toluol & Toluolene | U | * | E | U | E | * | * | * | * | U | U |
| Transformer Oil | U | U | * | U | E | * | * | * | * | * | * |
| Triacetin | G | U | U | E | E | * | U | * | U | U | U |
| Tributyl Phosphate | E | U | E | E | E | * | E | * | E | U | * |
| Trichlorethylene | G | E | * | * | * | * | * | * | * | * | * |
| Trichloroacetic Acid | U | G | U | U | E | * | U | * | U | U | * |
| Trichloroacetic Acid | U | U | U | G | G | * | * | U | U | U | * |
| Trichloroethane | * | G | * | U | E | * | * | * | * | * | * |
| Triethoanolamine | U | U | * | U | E | * | * | * | * | * | * |
| Triethylamine | U | U | * | E | E | * | * | * | * | * | * |
| Triethylborane | U | G | E | E | E | * | E | * | U | U | * |
| Triethynolamine | E | E | E | E | E | * | * | * | U | * | * |
| Trinitrotoluene | U | U | * | * | E | * | * | * | * | * | * |
| Triphenyl Phosphate | E | G | * | * | E | * | * | * | * | * | * |
| Trisodium Phosphate | * | * | * | * | E | * | * | * | * | * | * |
| Tung Oil | U | U | * | * | E | * | * | * | * | * | * |
| Turbine Oil | G | G | E | E | E | * | E | * | E | E | * |
| Turpentine | G | U | * | E | E | * | * | * | * | * | * |
| Uran | E | U | * | E | * | * | * | * | * | * | * |
| Urea | U | U | U | E | E | * | U | * | U | U | * |

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| E | Excellent |
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| * | No Information Available |

## Soft Goods Material Compatibility

| Fluid | BunaN | EPDM | Neoprene | Viton | PTFE | RTFE | UHMWPE | Polyurethane | Silicone | Nat. Rubber | Peek |
|---|---|---|---|---|---|---|---|---|---|---|---|
| Varnish | U | U | * | * | E | * | * | * | * | * | * |
| Vegetable Oil | E | E | E | E | E | * | E | * | E | E | * |
| Vinegar 70F | U | * | G | E | E | * | U | * | U | * | * |
| Vinyl Acetate | E | G | E | E | E | * | U | * | E | U | * |
| Vinyl Chloride | U | E | E | E | E | * | E | * | E | E | * |
| Walnut Oil | U | E | E | * | E | * | E | * | * | * | * |
| Water (Sea/Salt) | U | * | * | G | E | * | * | * | * | * | * |
| Water - Acid-Mine | E | * | * | E | * | * | * | * | * | * | * |
| Water - Colling ClosedSys | E | E | * | E | E | * | * | * | * | * | * |
| Water - Cooling | G | G | E | E | E | * | E | * | E | * | * |
| Water - Cooling Open Sys | * | E | * | * | E | * | E | * | * | * | * |
| Water - Distilled | E | E | * | E | * | * | * | * | * | * | * |
| Water - Distilled (Labor.) | * | E | * | * | E | * | E | * | * | * | * |
| Water - Drinking | E | E | E | E | E | * | E | * | E | E | E |
| Water - Hot Water Heating | E | E | * | E | E | * | E | * | * | * | * |
| Water - Steeped / Breweries | E | E | * | E | E | * | E | * | * | * | * |
| Water - Swimming Pool | U | E | * | E | * | * | * | * | * | * | * |
| Water - Demineralized | G | E | * | E | E | * | E | * | * | * | * |
| Water - Fresh 180F | E | E | * | E | * | * | * | * | * | * | * |
| Water - Fresh 225F | E | E | * | E | E | * | * | * | * | * | * |
| Water - Salt 180F | E | E | * | E | E | * | * | * | * | * | * |
| Water - Sewage 80F | U | G | * | U | E | * | * | * | * | * | * |
| Waxes | E | E | E | E | E | * | U | * | E | U | U |
| White Liquor | E | E | E | E | E | * | E | * | E | * | * |
| Wine | E | U | * | E | * | * | * | * | * | * | * |
| Wiskey & Wines | G | G | E | E | E | * | * | * | E | U | * |
| Wood (Methyl) Alcohol | E | E | E | E | E | * | * | * | E | E | E |
| Wood (Methyl-) Alcohol | E | E | E | E | E | * | E | * | E | E | * |
| Wood Alcohol | G | E | * | G | * | * | * | * | * | * | * |
| Wood Oil | G | E | * | G | * | * | * | * | * | * | * |
| Wood Pulp - Acid Soln | G | E | * | G | * | * | * | * | * | * | * |
| Wort (Breweries) | E | * | * | * | * | * | * | * | * | * | * |
| Xylene - Xylol | E | E | * | E | * | * | * | * | * | * | * |
| Xylol | G | E | * | E | E | * | E | * | * | * | * |
| Zinc Acetate | U | U | U | E | E | * | U | * | U | * | G |
| Zinc Chloride (5% @ 160F) | U | U | * | E | E | * | * | * | * | * | * |
| Zinc Nitrate | E | E | * | * | E | * | * | * | * | * | * |

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## Soft Goods Material Compatibility

| Fluid | BunaN | EPDM | Neoprene | Viton | PTFE | RTFE | UHMWPE | Polyurethane | Silicone | Nat. Rubber | Peek |
|---|---|---|---|---|---|---|---|---|---|---|---|
| Zinc Sulphate | U | E | * | E | E | * | * | * | * | * | * |
| Zinc Nitrate | E | E | E | E | * | * | * | * | E | U | * |
| Zinc Sulphate | E | E | * | E | E | * | * | * | * | * | * |

| Code | Description |
|---|---|
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Notes:

This Material Selection Chart is to considered as a guide only. Since detailed information such as temperature, concentration, etc. is unknown, it cannot be considered as exact. The information is provided in conformance with the best current Industrial Technology regarding the specific subject. In all cases, selection requires sound Engineering judgment and additional information may be required.

# Metal Goods Material Compatibility

| Fluid | C.I. | D.I. | C.S. | 316 SS | 304 SS | Al. Brz. | Monel | Hastelloy | Titanium |
|---|---|---|---|---|---|---|---|---|---|
| Acetal | * | * | * | E | * | * | * | * | * |
| Acetaldehyde | * | U | E | E | * | U | U | E | E |
| Acetamide | * | * | * | G | * | E | E | E | * |
| Acetate | * | * | E | E | * | * | E | * | * |
| Acetate of lead - watery | * | U | U | E | * | U | * | * | * |
| Acetic Acid 10% | * | * | U | E | * | U | G | E | E |
| Acetic Acid 80% | * | * | U | E | * | U | G | E | E |
| Acetic Acid Anhydride | * | * | E | E | * | E | U | E | E |
| Acetic Acid Crude | * | * | * | E | * | U | * | * | * |
| Acetic Acid Pure | * | * | * | E | * | U | * | * | * |
| Acetone | * | * | E | E | * | E | E | E | E |
| Acetonnitrile | * | * | * | E | * | * | * | * | * |
| Acetophenone | * | * | * | U | * | E | U | E | E |
| Acetryl Acetone | * | * | * | E | * | * | * | * | * |
| Acetyl Chloride | * | * | * | E | * | E | E | * | * |
| Acetylene | * | * | * | E | * | * | E | * | * |
| Acid Sludge | * | * | * | G | * | * | * | * | * |
| Acrylic Latex | * | G | * | E | * | G | * | * | * |
| Acrylonitrile | * | * | * | E | * | E | E | E | E |
| Air (Dry) | * | * | * | E | * | E | * | * | * |
| Alcohol - Ethyl | * | * | * | E | * | E | * | * | * |
| Alcohol - Methyl | * | * | * | E | * | E | * | * | * |
| Alcohol Amyl | * | * | * | E | * | E | * | * | * |
| Alcohol Butyl | * | * | * | E | * | E | * | * | * |
| Alcohol Ether / Cellosolve | * | * | * | E | * | * | * | * | * |
| Alicyclic Hydrocarbon | * | E | * | E | * | E | * | * | * |
| Allyl Chloride | * | * | U | E | * | * | E | * | U |
| Alum - Ammonium | * | * | U | G | * | U | U | * | * |
| Alum - Chrome | * | * | U | G | * | E | * | * | * |
| Alum - Potassium | * | * | U | G | * | U | * | * | * |
| Alumina | * | * | * | G | * | G | * | * | * |
| Aluminum Chloride | * | * | U | U | * | U | U | E | E |
| Aluminum Fluoride | * | * | U | G | * | G | G | E | E |
| Aluminum Hydroxide | * | * | G | G | * | U | G | G | G |
| Aluminum Nitrate | * | * | U | G | * | U | U | * | E |
| Aluminum Potassium Sulf | * | * | U | E | * | U | E | E | E |
| Aluminum Sulphate | * | * | U | G | * | U | U | E | E |
| Amines | * | * | * | E | * | * | * | * | * |
| Ammonia Dichromate Solut. | * | * | * | * | * | * | * | * | * |
| Ammonia Gas (Cold) | * | * | E | E | * | U | U | E | * |
| Ammonia Solutions | * | U | * | E | * | U | * | * | * |
| Ammonia - Anhydrous | * | * | E | E | * | U | U | E | E |
| Ammonia - Liquid | * | * | * | E | * | U | * | E | * |
| Ammonium Acetate | * | * | * | G | * | U | E | E | U |
| Ammonium Carbonate | * | * | E | G | * | * | E | E | E |

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| * | No Information Available |

# Metal Goods Material Compatibility

| Fluid | C.I. | D.I. | C.S. | 316 SS | 304 SS | Al. Brz. | Monel | Hastelloy | Titanium |
|---|---|---|---|---|---|---|---|---|---|
| Ammonium Carbonate Solut. | * | U | * | E | * | U | * | E | * |
| Ammonium Chloride | * | * | * | G | * | U | U | G | E |
| Ammonium Chloride Solut. | * | U | * | U | * | U | * | E | * |
| Ammonium Fluoride | * | * | U | G | * | * | U | E | U |
| Ammonium Hydroxide | * | * | G | E | * | U | U | G | E |
| Ammonium Metaphosphate | * | * | U | E | * | * | U | U | * |
| Ammonium Nitrate (5% @ 60F) | * | * | * | E | * | U | * | * | * |
| Ammonium Nitrate Solution | * | U | U | E | * | U | U | G | E |
| Ammonium Phosphate | * | * | U | E | * | U | U | G | E |
| Ammonium Sulfamate Solut. | * | * | * | * | * | * | * | E | * |
| Ammonium Sulfite | * | U | U | E | * | * | U | E | E |
| Ammonium Sulphate (90% @ 180F) | * | * | * | G | * | U | * | * | * |
| Ammonium Sulphide | * | * | * | G | * | U | * | * | * |
| Ammonium Thiocyanate | * | * | U | E | * | U | U | G | * |
| Ammonium ThiosulfateSol. | * | * | * | E | * | * | * | * | * |
| Amyl Acetate | * | * | U | E | * | U | E | E | E |
| Amyl Alcohol | * | U | G | E | * | G | E | G | E |
| Amyl Borate | * | * | * | * | * | * | * | * | * |
| Amyl Chloride | * | * | U | E | * | G | E | G | * |
| Amyl Naphthalene | * | * | * | E | * | * | * | * | * |
| Analine - Aniline Oil | * | U | * | E | * | U | * | * | * |
| Aniline 90% @ 70F | * | * | * | E | * | U | * | * | * |
| Aniline Dyes | * | * | * | E | * | * | * | * | * |
| Antimony Chloride | * | * | * | * | * | * | * | * | * |
| Antimony Trichloride | * | * | U | U | * | U | G | G | G |
| Aqua Regia | * | * | U | U | * | U | U | U | U |
| Argon | * | E | E | E | * | E | E | * | * |
| Aroclor | * | E | G | E | * | * | E | G | U |
| Arsenic Acid | * | * | U | G | * | U | U | G | * |
| Arsenic Trichloride | * | * | * | * | * | * | * | * | * |
| Asphalt | * | * | U | E | * | G | E | * | * |
| Baking Soda | * | U | * | E | * | U | * | E | * |
| Baking Soda (Sod. Bicarb) | * | U | P | E | * | G | U | E | E |
| Bardol B | * | E | * | * | * | * | * | * | * |
| Barium Carbonate (60F) | * | * | G | G | * | U | G | G | U |
| Barium Chloride | * | * | U | G | * | U | G | E | E |
| Barium Cyanide | * | G | G | G | * | * | U | * | * |
| Barium Hydroxide | * | * | G | E | * | U | U | G | E |
| Barium Sulphate (60F) | * | * | P | E | * | U | G | G | E |
| Barium Sulphide | * | * | U | E | * | U | U | G | U |
| Bariumcarbonate | * | * | * | E | * | G | * | * | * |
| Beer | * | * | U | E | * | U | U | U | U |
| Beer (Alcohol Industry) | * | U | * | E | * | E | * | * | * |
| Beer (breweries) | * | U | * | E | * | U | * | * | * |
| Beet Sugar Liquors | * | U | G | E | * | G | E | * | U |

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# Metal Goods Material Compatibility

| Fluid | C.I. | D.I. | C.S. | 316 SS | 304 SS | Al. Brz. | Monel | Hastelloy | Titanium |
|---|---|---|---|---|---|---|---|---|---|
| Beet Sugar Solution | * | G | G | E | * | * | * | * | * |
| Benzaldehyde | * | * | U | E | * | U | E | G | G |
| Benzene (Benzol) 70F | * | * | G | E | * | U | G | G | E |
| Benzene Sulfuric Acid | * | * | * | G | * | U | G | G | E |
| Benzoic Acid | * | U | U | G | * | U | E | G | E |
| Benzol Mixture | * | E | * | E | * | E | * | * | * |
| Benzoyl Chloride | * | * | * | E | * | * | * | * | * |
| Benzyl Alcohol | * | E | U | E | * | U | E | G | G |
| Benzyl Benzoate | * | E | * | E | * | E | * | * | * |
| Benzyl Chloride | * | * | U | E | * | * | G | * | * |
| Bismuth Carbonate (dry) | * | E | * | E | * | * | E | * | * |
| Bitumen | * | G | E | E | * | G | * | * | * |
| Black Liquor | * | U | U | G | * | * | G | G | U |
| Blast Furnace Gas | * | U | * | E | * | G | * | * | * |
| Bleach (Laundry) | * | U | * | U | * | U | * | * | * |
| Bleach Liquor | * | * | * | * | * | * | E | E | * |
| Bleach Pulp Stock | * | U | * | E | * | U | * | * | * |
| Bleaching Powder - Wet | * | * | * | E | * | U | * | * | * |
| Bonderite Solution (Auto) | * | U | * | E | * | U | * | * | * |
| Bone Oil (Pyridine Oil) | * | * | * | E | * | * | * | * | * |
| Borax | * | * | G | E | * | U | U | E | G |
| Bordeau Mixture | * | * | * | E | * | E | * | * | * |
| Boric Acid (5% @ 200F) | * | * | U | E | * | U | U | E | E |
| Brake Fluid (Automotive) | * | * | * | E | * | * | * | * | * |
| Brandy | * | U | * | E | * | * | * | * | * |
| Brine - Chlorinated | * | * | * | * | * | * | * | * | * |
| Brine (Acid) | * | * | * | * | * | U | * | * | * |
| Brine Alkaline | * | * | E | G | * | E | E | * | * |
| Brine Solution | * | U | * | G | * | E | G | E | * |
| Brine - Saturated | * | U | * | E | * | U | * | E | * |
| Brombenzene | * | * | * | * | * | * | * | * | * |
| Bromine - Gas | * | * | * | U | * | * | * | * | * |
| Bromine - Water | * | * | U | U | * | U | U | * | U |
| Bromine - dry | * | U | * | U | * | G | G | E | * |
| Bromobenzene | * | * | * | * | * | * | * | * | E |
| Budium (can coating) | * | * | * | E | * | * | * | * | * |
| Bulk Materials - dry | * | U | * | E | * | U | * | * | * |
| Butadiene | * | * | G | E | * | U | E | G | * |
| Butane - Butylene | * | * | E | E | * | U | E | G | U |
| Butane - Liquid | * | * | * | E | * | E | * | E | * |
| Butric Acid (5% @ 70F) | * | * | * | E | * | * | * | * | * |
| Butter | * | U | * | E | * | U | * | * | * |
| Buttermilk | * | U | * | E | * | U | * | * | * |
| Butyl Acetate | * | * | U | E | * | U | E | G | E |
| Butyl Alcohol (butanol) | * | * | G | E | * | U | E | G | G |

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# Metal Goods Material Compatibility

| Fluid | C.I. | D.I. | C.S. | 316 SS | 304 SS | Al. Brz. | Monel | Hastelloy | Titanium |
|---|---|---|---|---|---|---|---|---|---|
| Butyl Carbitol | * | * | * | E | * | * | * | * | * |
| Butyl Cellosolve/alc.eth. | * | * | * | E | * | G | G | * | * |
| Butyl Ether | * | * | * | E | * | * | * | * | * |
| Butyl Oleate | * | * | * | E | * | * | * | * | * |
| Butyl Stearate | * | * | * | E | * | G | * | * | * |
| Butyladehyde | * | * | * | E | * | * | * | * | * |
| Butyle Acetyl Ricinoleate | * | * | * | E | * | * | * | * | * |
| Butylenes | * | E | * | E | * | E | * | * | * |
| Butyric Acid | * | U | U | E | * | U | E | E | U |
| Cadmium Bicarbonate | * | * | * | G | * | G | G | * | * |
| Cadmium Bisulfate | * | * | * | G | * | U | G | * | * |
| Cadmium Cyanide (dry) | * | * | * | E | * | * | U | * | * |
| Cadmium Sulfate | * | * | * | G | * | * | U | G | * |
| Calcium Acetate | * | * | * | E | * | * | * | * | * |
| Calcium Bisulfate | * | U | U | E | * | * | U | G | * |
| Calcium Bisulfite | * | * | U | G | * | U | U | E | * |
| Calcium Carbonate (60F) | * | * | G | E | * | U | G | G | E |
| Calcium Chlorate (20% @ 160F) | * | * | G | E | * | U | G | G | G |
| Calcium Chloride | * | * | G | G | * | U | E | E | G |
| Calcium Fluophosphate | * | * | * | * | * | * | * | * | * |
| Calcium Hydroxide (50% @ 175F) | * | * | * | E | * | U | * | * | * |
| Calcium Hypochlorite | * | * | U | G | * | U | U | G | E |
| Calcium Nitrate | * | * | G | G | * | P | * | G | G |
| Calcium Oxide | * | * | * | U | * | * | G | G | * |
| Calcium Phosphate | * | U | G | G | * | * | G | * | * |
| Calcium Sulfide | * | * | * | E | * | * | * | * | * |
| Calcium Sulphate (90% @ 60F) | * | * | U | E | * | U | E | G | E |
| Calgon | * | * | * | E | * | * | * | * | * |
| Caliche Liquor | * | * | * | E | * | * | * | * | * |
| Calzium Bicarbonate | * | * | G | G | * | G | * | * | * |
| Camdens White Liquor | * | U | * | E | * | U | * | * | * |
| Carbitol | * | * | * | U | * | U | U | * | * |
| Carbiton Acid / Phenol | * | U | * | E | * | U | * | * | * |
| Carbon Bisulfide | * | * | G | G | * | * | U | G | G |
| Carbon Dioxide | * | * | * | E | * | E | * | * | * |
| Carbon Dioxide - gas dry | * | E | * | E | * | E | U | E | * |
| Carbon Dioxide (Dry) | * | E | E | E | * | G | E | E | E |
| Carbon Dioxide - Wet | * | U | P | E | * | U | U | G | U |
| Carbon Disulfide | * | * | G | E | * | P | G | G | E |
| Carbon Granules | * | E | * | E | * | E | * | * | * |
| Carbon Monoxide | * | E | E | E | * | U | E | E | E |
| Carbon Tetrachloride | * | U | * | G | * | U | U | G | E |
| Carbon Tetrachloride(dry) | * | U | G | E | * | U | G | * | * |
| Carbonated Water | * | U | * | E | * | U | * | * | * |
| Carbonic Acid | * | * | U | G | * | U | P | U | E |

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# Metal Goods Material Compatibility

| Fluid | C.I. | D.I. | C.S. | 316 SS | 304 SS | Al. Brz. | Monel | Hastelloy | Titanium |
|---|---|---|---|---|---|---|---|---|---|
| Carboxymethyl Cellulose | * | E | * | E | * | E | * | * | * |
| Castor Oil | * | * | G | E | * | U | G | U | * |
| Caustic Potash | * | U | U | E | * | * | U | G | G |
| Caustic Soda - Sodium / Lye | * | U | * | E | * | U | * | * | * |
| Caustic Solutions (34% @ 200F) | * | * | * | E | * | U | * | * | * |
| Caustic Soda / Lye | * | U | * | E | * | U | * | * | * |
| Cellosolve | * | * | G | G | * | U | G | G | G |
| Cellosolve (alcoh. ether) | * | * | * | E | * | * | * | * | * |
| Cellosolve Acetate | * | * | * | E | * | * | * | * | * |
| Celluloid Solutions | * | * | * | E | * | G | * | * | * |
| Cellulose Acetate | * | * | G | G | * | * | G | G | U |
| Cellulose Viscose | * | * | * | * | * | * | * | E | * |
| Cellulube Hydraulic Oils | * | * | * | E | * | E | * | * | * |
| Cemene | * | * | * | E | * | * | * | U | * |
| Cement | * | E | * | E | * | E | * | * | * |
| China Wood Oil (Tung) | * | * | * | E | * | U | * | * | * |
| Chloracetic Acid | * | * | U | U | * | * | G | * | * |
| Chloride | * | * | * | U | * | G | * | * | * |
| Chlorinated Solvents | * | U | * | G | * | U | * | * | * |
| Chlorinated Water | * | U | G | G | * | U | G | * | * |
| Chlorine (wet) (dry) | * | U | * | U | * | * | U | U | E |
| Chlorine Dioxide | * | * | U | G | * | * | * | U | E |
| Chlorine Gas (Dry @ 70F) | * | * | G | G | * | U | U | G | U |
| Chlorine Gas (Wet) | * | U | U | U | * | U | U | U | E |
| Chlorine Water | * | * | U | E | * | U | U | E | E |
| Chlorine - Liquid | * | * | U | G | * | U | G | E | * |
| Chloroacetic Acid | * | * | * | * | * | G | * | * | * |
| Chloroacetone | * | E | * | E | * | G | * | * | * |
| Chloroacidic Acid | * | U | U | U | * | U | G | E | E |
| Chlorobenzene (90% @ 70F) | * | * | G | E | * | U | E | E | E |
| Chlorobrommethane | * | * | * | * | * | * | * | * | * |
| Chlorobutadiene | * | * | * | E | * | G | * | * | * |
| Chloroform (70F) | * | * | U | E | * | U | E | G | G |
| Chlorophenol sulf. ac. sol. | * | * | * | * | * | * | * | * | * |
| Chlorosulfonic Acid | * | * | G | U | * | U | G | E | E |
| Chlorotoluene | * | * | * | * | * | * | * | * | * |
| Chlorox | * | * | * | E | * | * | * | * | * |
| Chocolate | * | U | * | E | * | U | G | U | U |
| Chrom-alum.solution | * | U | * | E | * | * | * | E | * |
| Chrome-alum.solutions | * | U | * | E | * | E | * | E | * |
| Chromic Acid (5% @ 70F) | * | * | * | E | * | U | * | * | * |
| Chromic Sulfate Solution | * | * | * | * | * | * | * | * | * |
| Cider | * | U | * | E | * | E | * | * | * |
| Citric Acid (5% @ 150F) | * | * | U | E | * | U | U | U | U |
| Citric Acid Solution | * | U | * | E | * | G | * | * | * |

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# Metal Goods Material Compatibility

| Fluid | C.I. | D.I. | C.S. | 316 SS | 304 SS | Al. Brz. | Monel | Hastelloy | Titanium |
|---|---|---|---|---|---|---|---|---|---|
| Citrus Juices | * | U | * | E | * | G | * | * | * |
| Coal Slurry | * | * | * | * | * | * | * | * | * |
| Cobalt Chloride (2n) | * | * | * | * | * | * | * | * | * |
| Coca Cola Syrup | * | U | * | E | * | U | * | * | * |
| Coconut Oil (Flood) | * | * | P | E | * | * | U | * | * |
| Cod Liver Oil | * | * | * | E | * | * | * | * | * |
| Coffee | * | * | U | E | * | G | U | * | * |
| Coffee Extract | * | U | * | E | * | E | * | * | * |
| Coke Oven Gas | * | * | E | E | * | * | U | E | * |
| Cooking Oil | * | U | * | E | * | U | * | * | * |
| Copper Acetate | * | U | U | E | * | U | U | G | * |
| Copper Arsenate (Basic) | * | * | * | E | * | G | * | * | * |
| Copper Chloride | * | U | U | U | * | U | U | U | E |
| Copper Chloride (dry) | * | U | * | U | * | U | * | * | * |
| Copper Cyanide | * | * | * | G | * | U | U | E | U |
| Copper Nitrate | * | U | U | E | * | U | U | U | G |
| Copper Plating Solution | * | U | * | E | * | U | * | * | * |
| Copper Silver Nitrate | * | U | * | G | * | * | U | * | * |
| Copper Sulphate (80% @ 175F) | * | * | U | E | * | U | U | E | E |
| Corn Oil | * | U | G | E | * | G | E | * | * |
| Corn Syrup | * | * | * | * | * |  | * | * | * |
| Cottonseed Oil | * | * | G | E | * | E | E | * | * |
| Creosol | * | * | G | E | * | * | E | G | G |
| Creosote | * | * | G | E | * | * | G | G | E |
| Cresylic Acid | * | * | G | E | * | * | P | E | G |
| Crude Oil - Sour | * | G | * | E | * | E | * | U | * |
| Crude Oil - Sweet | * | E | * | E | * | E | * | U | * |
| Cumene | * | * | * | E | * | * | * | G | U |
| Cupric Chloride | * | * | * | * | * | * | * | * | * |
| Cupric Nitrate | * | * | * | G | * | * | U | G | * |
| Cupric Sulfate | * | * | * | * | * | * | * | * | * |
| Cuprous Chloride | * | U | U | * | * | * | U | U | E |
| Cutting Oil-Emulsion | * | U | G | G | * | U | * | * | * |
| Cyanide Plating Solution | * | U | * | E | * | U | * | * | * |
| Cyclohexane | * | * | G | E | * | U | E | G | E |
| Cyclohexanol | * | * | G | G | * | * | G | G | G |
| Cyclohexanone | * | * | U | G | * | * | G | G | G |
| Decalin | * | * | * | * | * | * | * | * | * |
| Decane | * | * | * | * | * | * | * | * | * |
| Detergents (soaps) | * | * | U | G | * | * | * | G | E |
| Developing Solutions | * | * | * | * | * | * | * | * | * |
| Dewaxing Oil - Hot | * | * | * | E | * | * | * | * | * |
| Dextrose (Food) | * | * | G | E | * | G | G | G | * |
| Diacetone | * | * | * | * | * | E | * | * | * |
| Diacetone Alcohol | * | E | G | E | * | U | E | E | * |

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|---|---|---|---|---|---|---|---|---|---|
| Diamylamine | * | * | * | E | * | E | * | * | * |
| Dibenzyl Ether | * | * | * | E | * | * | * | * | * |
| Dibenzyl Sebacate | * | * | * | E | * | * | * | * | * |
| Dibutyl Amine | * | * | * | E | * | * | * | * | * |
| Dibutyl Phthlate | * | * | G | G | * | U | G | G | G |
| Dibutyl Sebacate | * | * | * | E | * | * | * | * | * |
| Dichloro Difluoro Methane | * | U | * | E | * | E | * | * | * |
| Dichloro Fluoro Methane | * | U | * | E | * | E | * | * | * |
| Dichlorobenzene | * | * | U | G | * | * | * | E | * |
| Dichloroethylene | * | * | * | U | * | * | G | G | G |
| Dichlorohexylamine | * | * | * | E | * | * | * | * | * |
| Diesel Fuel | * | G | G | E | * | G | E | E | G |
| Diethanolamine | * | G | U | E | * | * | U | * | E |
| Diethanolamine Solution | * | G | * | E | * | U | * | * | * |
| Diethyl Amine | * | * | * | E | * | E | * | * | * |
| Diethyl Ether | * | * | U | G | * | * | U | U | U |
| Diethyl Sebacate | * | * | * | * | * | * | * | * | * |
| Diethyl Stilboestrol | * | * | * | E | * | * | * | * | * |
| Diethylamine | * | G | U | E | * | * | U | * | * |
| Diethylene Glycol | * | * | E | E | * | * | U | U | * |
| Diisobutylene | * | * | * | * | * | * | * | * | * |
| Diisopropyl Ketone | * | * | * | E | * | * | * | * | * |
| Dimethyl Formamide | * | * | * | E | * | * | G | * | * |
| Dimethylaniline | * | * | * | E | * | * | * | * | * |
| Dioctyl Phthalate | * | * | G | G | * | U | * | * | * |
| Dioctyl Sebacate | * | * | * | * | * | * | * | * | * |
| Dioxane | * | * | G | G | * | U | G | G | G |
| Dioxolane | * | * | * | E | * | * | * | * | * |
| Dipentene (terpene-hydroc) | * | * | * | E | * | * | * | * | * |
| Diphenyl | * | * | * | E | * | * | * | * | * |
| Diphenyl Carbonate | * | U | * | E | * | * | U | * | * |
| Diphenyl Oxide | * | * | U | E | * | G | G | U | U |
| Disodium Phosphate | * | U | E | E | * | * | U | * | * |
| Dowfume w-40 (Fumigant) | * | * | * | E | * | * | * | * | * |
| Dowtherms | * | * | E | E | * | U | E | G | G |
| Drilling Mud | * | * | * | E | * | * | * | * | * |
| Drying Oil | * | U | * | E | * | U | * | * | * |
| Dyes | * | E | * | E | * | E | * | * | * |
| Epichlorohydrin | * | * | * | G | * | * | * | * | * |
| Epoxy Resins | * | * | * | E | * | * | * | * | * |
| Epsom Salt | * | * | * | * | * | * | * | * | * |
| Ethane | * | * | G | U | * | * | * | * | * |
| Ethanol / Ethyl Alcohol | * | U | * | E | * | E | * | E | * |
| Ethanolamine | * | * | G | E | * | * | G | G | E |
| Ethereal Oils | * | G | G | E | * | G | * | * | * |

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# Metal Goods Material Compatibility

| Fluid | C.I. | D.I. | C.S. | 316 SS | 304 SS | Al. Brz. | Monel | Hastelloy | Titanium |
|---|---|---|---|---|---|---|---|---|---|
| Ethers | * | * | G | E | * | G | E | G | U |
| Etheylenene Diamine | * | * | * | E | * | * | * | E | * |
| Ethlyene Oxide | * | * | * | E | * | * | * | * | * |
| Ethyl Acetate | * | * | G | E | * | U | G | G | E |
| Ethyl Acetoacetate | * | * | U | G | * | * | * | * | * |
| Ethyl Aceylate | * | U | U | E | * | * | * | * | * |
| Ethyl Acrylate | * | * | G | G | * | U | G | E | * |
| Ethyl Alcohol / Ethanol | * | U | G | E | * | U | E | E | E |
| Ethyl Benzene | * | E | U | E | * | * | E | E | E |
| Ethyl Benzoate | * | E | * | E | * | E | * | * | * |
| Ethyl Butyrate | * | E | * | E | * | E | * | * | * |
| Ethyl Cellosolve | * | * | * | * | * | * | * | * | * |
| Ethyl Cellulose | * | * | * | E | * | * | * | * | * |
| Ethyl Chloride (5% @ 60F) | * | * | * | E | * | E | * | * | * |
| Ethyl Chloride (Dry) | * | G | * | E | * | G | E | E | * |
| Ethyl Chloride (Wet) | * | U | * | G | * | G | * | E | * |
| Ethyl Ether | * | U | G | E | * | U | E | G | E |
| Ethyl Formate | * | * | * | E | * | * | E | * | * |
| Ethyl Mercaptan | * | * | G | E | * | * | G | * | * |
| Ethyl Oxalate | * | * | * | E | * | * | * | * | * |
| Ethyl Pentachlorobenzene | * | * | * | E | * | * | * | * | * |
| Ethyl Silicate | * | * | * | E | * | * | * | * | * |
| Ethylene | * | G | G | E | * | * | * | * | * |
| Ethylene Bromide | * | * | G | E | * | * | G | E | G |
| Ethylene Chloride | * | * | G | E | * | * | G | E | E |
| Ethylene Chlorohydrin | * | * | U | E | * | * | G | G | G |
| Ethylene Dichloride | * | * | G | G | * | U | E | G | G |
| Ethylene Dichloride (dry) | * | * | G | E | * | * | G | G | * |
| Ethylene Glycol | * | E | G | E | * | E | E | * | * |
| Ethylene Oxide | * | U | G | E | * | * | U | U | E |
| Ethylene Trichloride | * | U | * | E | * | U | * | * | * |
| Fatty Acids | * | * | U | E | * | U | G | E | E |
| Feran | * | * | * | E | * | * | * | * | * |
| Ferric Chloride | * | * | U | U | * | U | U | U | E |
| Ferric Nitrate (PH &+. 5% @ 60F) | * | * | * | E | * | * | * | * | * |
| Ferric Sulphate (5% @ 60F) | * | * | U | G | * | U | U | E | E |
| Ferrous Ammonium | * | * | * | * | * | * | * | U | * |
| Ferrous Chloride | * | * | * | U | * | U | U | G | E |
| Ferrous Sulphate | * | * | U | E | * | U | U | G | U |
| Fertizer Solutions | * | * | * | * | * | * | * | * | * |
| Fireblotting Foam | * | E | * | E | * | E | E | E | E |
| Fish Solutions | * | * | G | G | * | * | U | * | * |
| Florine Gas (dry) | * | * | * | * | * | * | * | * | * |
| Fluid Resins | * | E | * | E | * | E | * | * | * |
| Fluoboric Acid | * | * | U | G | * | * | G | E | U |

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|---|---|---|---|---|---|---|---|---|---|
| Fluorine (70F) | * | * | * | U | * | U | * | * | * |
| Fluorobenzene | * | * | * | E | * | * | * | * | * |
| Fluorocarbon Oil | * | * | * | E | * | E | * | * | * |
| Fluosilicic Acid | * | * | U | G | * | * | E | G | U |
| Formaldehyde (70F) | * | * | U | E | * | U | E | G | E |
| Formamide | * | * | * | E | * | * | * | * | * |
| Formic Acid (5% @ 150F) | * | * | * | E | * | U | E | E | G |
| Freon 11 | * | * | U | E | * | U | E | * | * |
| Freon 113 | * | * | * | E | * | E | E | * | * |
| Freon 114 | * | * | * | E | * | E | * | * | * |
| Freon 11482 | * | U | * | E | * | E | * | * | * |
| Freon 115 | * | U | * | E | * | E | * | * | * |
| Freon 12 | * | * | U | E | * | U | E | U | U |
| Freon 13 | * | U | * | E | * | E | * | * | * |
| Freon 1381 | * | U | * | E | * | E | * | * | * |
| Freon 21 | * | U | * | E | * | G | E | * | * |
| Freon 22 | * | * | U | E | * | U | E | G | U |
| Freon 502 | * | U | * | E | * | E | * | * | * |
| Freon c 318 | * | U | * | E | * | E | * | * | * |
| Fruit Juices | * | U | U | E | * | * | G | E | U |
| Fruit Juices (Food) 70F | * | * | * | E | * | U | * | * | * |
| Fuel - Jet (JP.1 to JP.5) | * | U | E | E | * | E | * | * | * |
| Fuel Oil | * | U | E | E | * | * | E | G | U |
| Furan | * | * | * | E | * | * | * | * | * |
| Furfural | * | * | G | E | * | U | G | G | E |
| Gallic Acid (5% @ 200F) | * | * | U | E | * | G | G | G | * |
| Gas - Coke Oven | * | G | * | E | * | * | E | * | * |
| Gas - Furnace | * | G | * | E | * | * | * | * | * |
| Gas - Illuminating | * | G | * | E | * | * | * | * | * |
| Gas - Manufactured | * | G | G | E | * | * | E | * | * |
| Gas (Natural) | * | * | G | E | * | E | * | * | * |
| Gasahol (Ethanol) | * | * | * | E | * | G | U | G | * |
| Gasoline | * | * | * | E | * | G | * | * | * |
| Gelatin (Food) | * | * | U | E | * | U | U | * | * |
| Glacial Acetic Acid | * | U | * | G | * | * | * | E | * |
| Glucose | * | * | G | E | * | U | E | * | * |
| Glue | * | * | G | E | * | U | E | U | U |
| Glycerine / Glycerol | * | * | G | E | * | U | G | E | E |
| Glycois | * | E | * | E | * | * | * | * | * |
| Glycols | * | * | U | U | * | * | G | * | * |
| Grease | * | E | * | E | * | * | * | * | * |
| Green Sulfate Liquor | * | * | G | * | * | U | * | * | * |
| Helium | * | * | * | E | * | E | * | * | * |
| Heptane | * | * | G | E | * | U | E | E | G |
| Hexaldehyde | * | * | * | * | * | * | * | * | * |

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|---|---|---|---|---|---|---|---|---|---|
| Hexane | * | * | G | E | * | U | E | E | E |
| Hexyl Alcohol | * | * | * | * | * | * | * | * | * |
| Hexylene Glycol | * | * | * | * | * | * | * | * | * |
| Hydraulic Oil (Cellulube) | * | E | * | E | * | E | * | * | * |
| Hydraulic Oil (Petr.Base) | * | E | * | E | * | E | * | * | * |
| Hydraulic Oil / WaterBase | * | E | * | E | * | E | * | * | * |
| Hydraulic Oils | * | * | * | E | * | E | * | * | * |
| Hydrobromic Acid 200F | * | * | * | U | * | U | * | * | * |
| Hydrochloric Acid (10% @ 60F) | * | * | * | U | * | U | * | * | * |
| Hydrochloric Acid (20% @ 60F) | * | * | U | U | * | U | U | G | U |
| Hydrochloric Acid (35% @ 60F) | * | * | U | U | * | U | U | G | U |
| Hydrocyanic Acid | * | * | * | U | * | G | * | * | * |
| Hydrofluoric Acid 100% | * | * | G | U | * | U | U | G | U |
| Hydrofluoric Acid 48% | * | * | * | U | * | * | U | * | * |
| Hydrofluoric Acid 60% | * | * | * | U | * | U | * | * | * |
| Hydrofluosilic Acid (5% @ 70F) | * | * | * | U | * | E | * | * | * |
| Hydrogen | * | * | E | E | * | U | U | E | E |
| Hydrogen Peroxide 90% | * | * | U | G | * | U | U | E | G |
| Hydrogen Sulfide - Dry | * | * | U | G | * | U | U | G | U |
| Hydrogen Sulfide - Wet | * | * | G | E | * | U | U | G | U |
| Hydroguinone | * | * | U | G | * | * | G | G | G |
| Hypo / Sodium Thiosulphate | * | U | * | E | * | * | * | * | * |
| Hypochlorite | * | U | U | U | * | * | * | * | * |
| Hypochlorous Acid | * | * | U | U | * | * | U | * | G |
| Ink | * | * | * | * | * | * | * | * | * |
| Iodine | * | * | U | U | * | U | U | E | U |
| Iodine Solution | * | * | * | U | * | U | * | * | * |
| Isoamylakcohol | * | * | * | * | * | * | * | * | * |
| Isobutric Acid Soln | * | U | * | E | * | U | * | * | * |
| Isobutyl Alcohol | * | * | * | G | * | * | * | * | * |
| Isooctane | * | E | G | E | * | G | E | G | * |
| Iso-Octane | * | * | * | E | * | E | * | * | * |
| Isopropyl Acetate | * | * | E | E | * | * | G | U | * |
| Isopropyl Alcohol | * | * | G | E | * | G | E | U | E |
| Isopropyl Chloride | * | * | * | * | * | * | * | E | * |
| Isopropyl Ether | * | * | G | G | * | U | G | * | * |
| Jet Fuel (JP 3-6) | * | * | * | * | * | * | * | * | * |
| Jet Fuel (JP1 thru JP5) | * | * | * | G | * | * | * | * | * |
| Kerosene | * | * | G | E | * | U | E | G | U |
| Kerosene - Deodorized | * | * | * | E | * | * | * | * | * |
| Ketchup | * | U | U | E | * | U | G | * | * |
| Ketones | * | E | * | E | * | E | * | * | * |
| Lacquer Solvents | * | * | * | E | * | E | * | * | * |
| Lactic Acid (5% @ 70F) | * | * | * | G | * | U | * | * | * |
| Lard (Animal Fat) | * | U | * | E | * | * | E | * | * |

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# Metal Goods Material Compatibility

| Fluid | C.I. | D.I. | C.S. | 316 SS | 304 SS | Al. Brz. | Monel | Hastelloy | Titanium |
|---|---|---|---|---|---|---|---|---|---|
| Lard Oil 70F | * | * | P | E | * | U | G | E | * |
| Latex Stripped (No Arom.) | * | U | * | E | * | U | * | * | * |
| Latex Unstripped (Arom.) | * | U | * | E | * | U | * | * | * |
| Latex-Emulsion | * | G | G | E | * | E | * | * | * |
| Lavender Oil | * | * | * | E | * | * | * | * | * |
| Lead Acetate | * | * | U | G | * | * | G | G | E |
| Lead Nitrate | * | * | U | G | * | * | G | G | * |
| Lead Sulfamate | * | * | * | * | * | * | * | * | * |
| Lead Sulfate | * | * | U | G | * | * | G | G | * |
| Lead Sulfide | * | * | U | G | * | * | G | * | * |
| Lemon Oil | * | * | * | E | * | E | * | * | * |
| Ligroin | * | * | * | * | * | * | * | * | * |
| Lime Bleach | * | * | * | * | * | * | * | * | * |
| Lime Sulfur | * | * | U | E | * | U | G | * | * |
| Lime - Calc. Hydrox. Soln | * | U | * | E | * | E | E | * | * |
| Linoleic Acid | * | * | U | G | * | U | G | G | E |
| Linseed Oil | * | * | G | E | * | U | E | G | U |
| Liquor (Black Sulphate) | * | * | * | E | * | * | * | * | * |
| Liquors (Beet Sugar) | * | * | * | E | * | U | * | * | * |
| Liquors (Cane Sugar) | * | * | * | E | * | E | * | * | * |
| Lubricating Oil | * | * | G | E | * | U | E | * | U |
| Lye | * | * | * | * | * | * | * | * | * |
| Magnesium Ammonium Sulf. | * | * | * | * | * | * | * | * | * |
| Magnesium Bisulfate | * | U | * | E | * | U | E | * | * |
| Magnesium Carbonate | * | U | * | E | * | * | U | G | G |
| Magnesium Chloride (4% @ 75F) | * | * | * | G | * | U | * | * | * |
| Magnesium Hydroxide | * | * | G | E | * | U | G | E | U |
| Magnesium Nitrate | * | * | G | G | * | * | U | U | U |
| Magnesium Oxide | * | * | * | * | * | * | * | * | * |
| Magnesium Sulphate (5% @ 120F) | * | * | * | E | * | E | * | * | * |
| Maleic Acid | * | * | U | E | * | * | G | G | E |
| Maleic Acid Anhydride | * | U | U | G | * | * | G | E | * |
| Maleic Anhydride Soln. | * | U | * | E | * | U | * | E | * |
| Malic Acid | * | U | U | G | * | * | U | G | E |
| Manganese Chloride | * | * | G | U | * | * | U | G | E |
| Mash (Breweries) | * | U | * | E | * | G | * | * | * |
| Mercaptans | * | * | * | G | * | * | * | * | * |
| Mercuric Chloride (3% @ 60F) | * | * | * | U | * | U | * | * | * |
| Mercuric Cyanide | * | * | U | E | * | U | G | G | U |
| Mercurous Nitrate (pH7+) | * | * | G | G | * | U | U | G | * |
| Mercury | * | * | G | E | * | U | U | E | E |
| Mesityl Oxide | * | * | * | * | * | * | * | * | * |
| Methacrylates | * | * | * | E | * | * | * | * | * |
| Methacrylic Esters | * | * | * | E | * | * | * | * | * |
| Methane - Liquid | * | U | * | E | * | U | * | * | * |

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|---|---|---|---|---|---|---|---|---|---|
| Methane - Gas | * | * | G | E | * | U | E | E | E |
| Methanol | * | G | G | G | * | G | * | * | * |
| Methyl Acetate | * | * | P | E | * | * | U | E | * |
| Methyl Acetone | * | * | G | E | * | G | E | * | * |
| Methyl Alcohol | * | * | G | G | * | U | E | E | G |
| Methyl Amine | * | U | U | E | * | * | U | * | * |
| Methyl Bromide | * | G | G | E | * | * | * | * | * |
| Methyl Butyl Ketone | * | * | * | E | * | * | * | * | * |
| Methyl Cellosolve | * | * | P | E | * | E | * | * | * |
| Methyl Chloride | * | U | U | E | * | U | G | G | E |
| Methyl Ethyl Keton | * | * | * | E | * | E | * | * | * |
| Methyl Ethyl Ketone | * | U | E | E | * | U | E | G | G |
| Methyl Formate | * | * | U | E | * | G | G | G | * |
| Methyl Isobutyl Carbinol | * | * | G | E | * | * | * | G | G |
| Methyl Isobutyl Ketone | * | * | G | E | * | * | G | G | G |
| Methyl Methacrylate | * | * | * | * | * | * | * | * | * |
| Methyl Oleate | * | * | * | * | * | * | * | * | * |
| Methyl Propyl Ketone | * | * | * | E | * | * | * | * | * |
| Methyl Salicylate | * | * | G | E | * | * | G | * | * |
| Methylene Bromide | * | * | * | * | * | * | * | * | * |
| Methylene Chloride | * | * | G | G | * | * | G | E | E |
| Milk (Food) | * | * | G | E | * | U | U | G | G |
| Milk of Lime | * | G | G | E | * | * | * | * | * |
| Mine Water - Acidic | * | U | * | E | * | * | * | * | * |
| Mine Water - Acidic-Salts | * | U | * | E | * | U | * | * | * |
| Mineral Oil | * | * | G | G | * | U | E | * | G |
| Mixed Acids / Nitric Sulf. | * | U | U | E | * | * | U | U | * |
| Molasses (Food) | * | * | G | E | * | U | G | E | * |
| Monobromobenzene | * | * | G | G | * | G | G | G | G |
| Monochloroacetic Acid | * | U | * | U | * | U | * | E | * |
| Monochlorobenzen | * | * | * | * | * | * | * | * | * |
| Monoethanolamine | * | * | G | E | * | U | G | G | G |
| Monomethylaniline | * | * | * | E | * | * | * | * | * |
| Muriatic Acid | * | U | * | U | * | * | U | E | G |
| Mustard | * | * | * | E | * | * | * | * | * |
| Naphtenic Acid | * | * | * | E | * | * | * | E | * |
| Naptha | * | * | G | E | * | E | E | G | G |
| Napthalene | * | * | G | E | * | * | E | G | E |
| N-Butylacetate | * | * | * | E | * | * | * | * | * |
| Nickel Acetate | * | * | * | * | * | * | * | * | * |
| Nickel Ammonium Sulphate | * | * | * | E | * | * | * | * | * |
| Nickel Chloride | * | * | U | U | * | G | G | E | E |
| Nickel Nitrate | * | U | G | E | * | * | U | G | G |
| Nickel Sulphate (10% @ 60F) | * | * | * | E | * | * | * | * | * |
| Nicotin Sulfate | * | * | * | G | * | * | * | * | * |

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|---|---|---|---|---|---|---|---|---|---|
| Nitric Acid (10% @ 70F) | * | * | E | U | * | U | U | E | E |
| Nitric Acid (30% @ 70F) | * | * | U | G | * | U | U | G | E |
| Nitric Acid (60% @ 175F) | * | * | * | * | * | U | * | * | * |
| Nitric Acid 70% | * | * | U | U | * | U | U | G | E |
| Nitrobenzene | * | * | G | E | * | * | G | G | E |
| Nitroethane | * | * | * | * | * | * | * | * | * |
| Nitrogen - Gas | * | E | * | E | * | E | * | * | * |
| Nitrogen - Liquid | * | U | * | E | * | U | * | * | * |
| Nitroglycerine | * | U | U | E | * | E | * | * | * |
| Nitroglycol | * | U | U | E | * | E | * | * | * |
| Nitromethane | * | G | G | E | * | * | U | * | * |
| Nitrous Acid 10% | * | * | U | G | * | U | U | * | * |
| Nitrous Oxide | * | * | G | G | * | * | U | U | * |
| Octadecane | * | * | * | * | * | * | * | * | * |
| Octane | * | * | G | G | * | G | G | E | * |
| Octanol / Octyl Alcohol | * | * | * | E | * | * | * | * | * |
| Octyl Alcohol | * | * | * | * | * | * | * | * | * |
| Oil - ASTM #1 | * | * | * | E | * | E | * | * | * |
| Oil - ASTM #3 | * | * | * | E | * | G | * | * | * |
| Oil - SAE #10 | * | * | * | * | * | E | * | * | * |
| Oil (Crude) | * | * | * | E | * | E | * | * | * |
| Oil (Diesel) | * | * | * | E | * | G | * | * | * |
| Oil (Fuel - ASTM Ref.A) | * | * | * | E | * | G | * | * | * |
| Oil (Fuel - ASTM Ref.B) | * | * | * | E | * | G | * | * | * |
| Oil (Fuel - ASTM Ref.C) | * | * | * | E | * | G | * | * | * |
| Oil (Fuel) | * | * | * | E | * | E | * | * | * |
| Oils & Fats | * | * | G | E | * | * | E | * | * |
| Oils - Fish | * | * | * | E | * | U | * | * | * |
| Oleic Acid 100F | * | * | * | G | * | G | * | * | * |
| Oleum | * | * | G | U | * | U | U | E | * |
| Olive Oil | * | * | G | G | * | G | G | U | U |
| Oxalic Acid | * | * | * | G | * | U | * | * | * |
| Oxygen | * | * | G | E | * | U | E | * | U |
| Ozone | * | * | P | E | * | U | G | * | * |
| Paint (Inseed) | * | * | * | E | * | E | * | * | * |
| Paint - Synthetic | * | * | * | E | * | E | * | * | * |
| Paint - Thinners | * | * | * | E | * | E | * | * | * |
| Palmitic Acid | * | * | * | E | * | U | G | * | * |
| Paraffin | * | * | G | E | * | U | E | G | * |
| Paraformaldehyde | * | U | * | E | * | E | * | * | * |
| Pentachlorophenol | * | * | * | E | * | E | * | * | * |
| Pentane | * | * | G | G | * | G | G | G | * |
| Perchlorethylene | * | * | G | E | * | * | E | G | E |
| Perchloric Acid | * | * | * | * | * | U | * | * | * |
| Petrolatum | * | * | P | G | * | * | G | * | * |

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|---|---|---|---|---|---|---|---|---|---|
| Petroleum - Refined | * | * | * | U | * | G | G | * | * |
| Petroleum Sour | * | * | * | G | * | G | U | * | * |
| Phenol | * | * | G | E | * | U | E | E | G |
| Phenolates (di-nitrols) | * | * | * | E | * | * | * | * | * |
| Phenyl Ethyl Ether | * | * | * | E | * | * | * | * | * |
| Phenylbenzene | * | * | * | * | * | * | * | * | * |
| Phenylethyl Ether | * | * | * | * | * | * | * | * | * |
| Phenylhydrazine | * | * | * | * | * | * | * | * | * |
| Phorone | * | * | * | * | * | * | * | * | * |
| Phosphoric Acid (10% @ 70F) | * | * | U | G | * | U | U | G | U |
| Phosphoric Acid (25% @ 70F) | * | * | U | G | * | U | U | E | P |
| Phosphoric Acid (75% @ 70F) | * | * | * | G | * | U | * | * | * |
| Phosphorus Oxychloride | * | * | U | U | * | * | G | G | G |
| Phosphorus Trichloride | * | * | U | U | * | * | * | G | U |
| Photographic Solutions | * | * | U | E | * | * | G | * | U |
| Phthalic Acid | * | * | G | E | * | * | G | E | U |
| Phthalic Anhydride | * | G | G | E | * | * | E | E | * |
| Pickling Solution (20%Nitric-4H | * | * | * | G | * | * | * | * | * |
| Picric Acid (80% @ 70F) | * | * | * | E | * | * | * | * | * |
| Pine Oil | * | * | * | * | * | * | * | * | * |
| Pineapple Juice | * | U | * | E | * | * | * | * | * |
| Pinene | * | * | * | E | * | * | * | * | * |
| Piperazine | * | * | * | E | * | * | * | * | * |
| Piperidine (Heterocyclic) | * | * | * | * | * | * | * | * | * |
| Plating Soln (Crom/ni) | * | U | * | U | * | U | * | U | * |
| Plating Solutions | * | * | * | G | * | * | * | * | * |
| Poly Vinyl Chloride Res | * | * | * | E | * | * | * | * | * |
| Polyvinyl Acetate | * | * | * | E | * | * | * | * | * |
| Potash - Caustic | * | * | * | * | * | * | * | * | * |
| Potassium Acetate | * | G | G | E | * | * | * | * | * |
| Potassium Bicarbonate | * | * | * | E | * | E | * | U | * |
| Potassium Bisulfate | * | * | U | G | * | * | U | * | * |
| Potassium Bisulfite | * | * | * | E | * | * | * | * | * |
| Potassium Borate | * | * | G | E | * | * | * | * | * |
| Potassium Bromide | * | * | * | G | * | E | * | * | * |
| Potassium Carbonate | * | * | * | E | * | E | * | * | * |
| Potassium Carbonate Water | * | G | G | G | * | G | * | * | * |
| Potassium Chlorate | * | * | * | G | * | * | * | * | * |
| Potassium Chloride | * | * | G | E | * | E | E | E | E |
| Potassium Chromate | * | * | * | E | * | U | G | G | E |
| Potassium Cyanide | * | * | G | E | * | U | U | G | U |
| Potassium Dichromate | * | * | * | E | * | U | * | * | * |
| Potassium Ferricyanide | * | * | U | G | * | * | G | G | U |
| Potassium Ferrocyanide | * | * | G | G | * | U | G | G | G |
| Potassium Hydroxide (5% @ 70F) | * | * | G | E | * | U | U | G | E |

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|---|---|---|---|---|---|---|---|---|---|
| Potassium Iodide | * | * | * | G | * | * | * | * | * |
| Potassium Nitrate (6% @ 68F) | * | * | * | E | * | U | * | * | * |
| Potassium Permanganate | * | * | * | G | * | * | * | * | * |
| Potassium Phosphate | * | * | * | G | * | * | * | * | * |
| Potassium Sulfide | * | * | U | E | * | U | U | G | U |
| Potassium Sulfite | * | * | U | E | * | * | G | E | * |
| Potassium Sulphate (7% @ 180F) | * | * | * | E | * | E | * | * | * |
| Potassium Thiosulfate | * | * | * | E | * | E | * | * | * |
| Producer Gas | * | * | * | E | * | E | * | * | * |
| Propane | * | * | G | E | * | G | E | G | U |
| Propionaldehyde | * | U | * | E | * | E | * | * | * |
| Propionic Acid | * | U | * | E | * | * | E | E | G |
| Propionitrile | * | * | * | * | * | * | * | * | * |
| Propyl Acetate | * | * | G | G | * | * | * | * | * |
| Propyl Alcohol | * | * | G | E | * | U | G | E | G |
| Propyl Nitrate | * | * | * | G | * | * | * | * | * |
| Propylene | * | * | * | * | * | * | * | * | * |
| Propylene Dichloride | * | * | G | E | * | * | G | * | * |
| Propylene Glycol | * | G | G | G | * | * | G | G | G |
| Propylene Oxide | * | * | G | E | * | * | * | * | * |
| Pydraul | * | * | * | * | * | * | * | * | * |
| Pyridine 150F | * | * | U | G | * | * | G | U | G |
| Pyrrole | * | * | * | E | * | * | * | * | * |
| Quaternary Ammon Soln | * | * | * | * | * | * | * | * | * |
| Rayon Viscose | * | * | * | * | * | * | * | E | * |
| Resins & Rosins | * | * | * | E | * | E | * | * | * |
| Rosin Oil | * | U | * | E | * | E | * | E | * |
| Rotenone & Water | * | * | * | E | * | * | * | * | * |
| Rum | * | * | * | E | * | * | * | * | * |
| Sal Soda Ash | * | U | * | E | * | U | * | U | * |
| Salicylic Acid | * | * | U | E | * | * | G | E | G |
| Sea Water | * | U | U | G | * | E | E | E | * |
| Sewage | * | * | * | E | * | G | * | * | * |
| Sewwage | * | U | * | E | * | E | * | * | * |
| Shellac - Bleached | * | E | * | E | * | E | * | * | * |
| Silicone Greases | * | * | * | E | * | E | * | * | * |
| Silicone Oils | * | * | G | E | * | U | E | * | * |
| Silver Cyanide | * | * | * | G | * | U | G | G | G |
| Silver Nitrate | * | * | U | G | * | U | U | U | U |
| Silver Sulfate | * | * | * | * | * | * | * | * | * |
| Skydrol 500 | * | * | * | E | * | E | * | * | * |
| Soap Solution (Stearate) 70F | * | * | * | E | * | E | * | * | * |
| Soap - Liquid | * | * | * | E | * | * | * | * | * |
| Soaps (Detergents) | * | * | * | E | * | E | * | * | * |
| Sodium Acetate (5% @ 75F) | * | * | U | E | * | * | E | G | E |

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|---|---|---|---|---|---|---|---|---|---|
| Sodium Acid Sulfate Soln | * | * | * | * | * | * | E | E | * |
| Sodium Aluminate | * | * | G | E | * | * | G | G | E |
| Sodium Bicarbonate | * | * | * | E | * | G | * | * | * |
| Sodium Bichromate Soln | * | * | * | E | * | * | * | * | * |
| Sodium Bisulfate | * | * | G | E | * | U | G | G | E |
| Sodium Bisulfite | * | * | U | G | * | U | G | G | G |
| Sodium Bisulphite - Watery | * | U | U | E | * | * | * | * | * |
| Sodium Borate | * | U | P | E | * | * | G | G | G |
| Sodium Borate (Borax) | * | U | * | E | * | G | * | * | * |
| Sodium Bromide | * | U | P | U | * | U | G | G | E |
| Sodium Carbonate (80% @ 60F) | * | * | * | E | * | G | * | * | * |
| Sodium Chlorate | * | * | U | G | * | * | E | E | E |
| Sodium Chloride (30% @ 180F) | * | * | * | E | * | E | * | * | * |
| Sodium Chromate | * | * | * | E | * | * | * | * | * |
| Sodium Cyanide | * | * | G | E | * | U | U | G | G |
| Sodium Dichromate | * | * | G | G | * | U | U | E | E |
| Sodium Fluoride | * | * | U | G | * | * | U | G | U |
| Sodium Hydroxide 20% | * | * | * | E | * | U | * | * | * |
| Sodium Hydroxide 5% | * | * | * | E | * | G | * | * | * |
| Sodium Hydroxide 50% | * | * | P | G | * | U | U | E | E |
| Sodium Hydroxide 70% | * | * | P | G | * | U | U | E | G |
| Sodium Hypochlorite (5% @ 60F) | * | * | * | G | * | U | * | * | * |
| Sodium Iodide | * | U | G | U | * | * | U | * | * |
| Sodium Metaphosphate | * | * | U | E | * | U | G | * | * |
| Sodium Metasilicate | * | * | * | E | * | * | E | E | U |
| Sodium Nitrate (30% @ 60F) | * | * | * | E | * | G | * | * | * |
| Sodium Nitrite | * | U | G | E | * | * | G | G | E |
| Sodium Perborate | * | * | * | E | * | * | * | * | * |
| Sodium Perchlorate | * | * | U | G | * | G | E | E | * |
| Sodium Peroxide | * | * | G | E | * | U | U | G | * |
| Sodium Phenolate Soln | * | * | * | * | * | * | * | E | * |
| Sodium Phosphate (5% @ 60F) | * | * | * | E | * | * | * | * | * |
| Sodium Silicate | * | * | G | E | * | E | G | G | E |
| Sodium Sulfide (5% @ 70F) | * | * | * | * | * | U | * | * | * |
| Sodium Sulfide (70% @ 70F) | * | * | * | E | * | U | * | * | * |
| Sodium Sulphate (80% @ 60F) | * | * | * | E | * | G | * | * | * |
| Sodium Tetra bor. Slurry | * | G | * | E | * | E | * | * | * |
| Sodium Thiosulfate | * | * | U | E | * | U | E | G | E |
| Stannic Chloride | * | * | U | U | * | U | U | G | E |
| Stannous Chloride | * | U | U | E | * | U | U | G | U |
| Starch Solutions | * | * | * | * | * | * | * | * | * |
| Steam 225F | * | * | * | E | * | E | * | * | * |
| Steam 300F | * | * | * | E | * | G | * | * | * |
| Stearic Acid (90% @ 200F) | * | * | * | E | * | U | * | * | * |
| Stoddard's Solvent | * | * | G | G | * | * | G | E | * |

| Code | Description |
|---|---|
| E | Excellent |
| G | Good |
| P | Poor |
| U | Unsatisfactory |
| * | No Information Available |

# Metal Goods Material Compatibility

| Fluid | C.I. | D.I. | C.S. | 316 SS | 304 SS | Al. Brz. | Monel | Hastelloy | Titanium |
|---|---|---|---|---|---|---|---|---|---|
| Styrene | * | E | E | E | * | U | E | G | * |
| Sulferous Acid | * | * | U | G | * | G | G | * | * |
| Sulfur | * | U | U | E | * | U | U | E | E |
| Sulfur Chloride | * | * | U | G | * | U | E | G | U |
| Sulfur Dioxide - Wet | * | U | E | E | * | U | U | G | E |
| Sulfur Dioxide - DryE | | | G | E | * | U | * | * | * |
| Sulfuric Acid | * | U | U | E | * | U | * | E | * |
| Sulfuric Acid (0-7%)70F | * | * | * | G | * | U | * | * | * |
| Sulfuric Acid (40-75%) 70F | * | * | * | U | * | U | * | * | * |
| Sulfuric Acid (7-40%)70F | * | * | * | U | * | U | * | * | * |
| Sulfuric Acid (75-95%) | * | * | * | U | * | U | * | * | * |
| Sulfuric Acid (95-100%) | * | * | * | U | * | U | * | * | * |
| Sulfuric Acid - Fuming | * | U | * | G | * | U | U | G | U |
| Sulfuric Acid - Oleum | * | E | * | G | * | U | * | * | * |
| Sulfurous Acid | * | U | U | E | * | U | U | G | E |
| Sulphur (Molten) | * | * | * | G | * | U | * | * | * |
| Sulphur Dioxide 60F | * | * | * | E | * | U | * | * | * |
| Sulphur Trioxide | * | * | * | E | * | * | * | * | * |
| Sulphurour Acid (80% @ 100F) | * | * | * | U | * | U | * | * | * |
| Tall Oil | * | * | G | E | * | * | G | E | * |
| Tallow - Animal Fats | * | * | * | E | * | * | * | * | * |
| Tannic Acid (Tannin) | * | U | * | E | * | G | E | * | * |
| Tannic Acid 150F | * | * | U | E | * | U | G | G | E |
| Tannin | * | U | * | E | * | G | E | * | * |
| Tanning Liquors | * | U | * | E | * | * | * | G | E |
| Tar | * | * | G | E | * | G | E | G | * |
| Tartaric Acid 150F | * | * | * | E | * | G | * | * | * |
| Terpineol | * | * | * | E | * | * | * | * | * |
| Tetrachlorethane | * | * | G | E | * | * | E | E | E |
| Tetraethyl Lead | * | * | G | G | * | * | G | * | * |
| Tetrahydrofuran | * | * | * | G | * | * | * | G | G |
| Tetralin | * | * | * | E | * | * | * | * | * |
| Thionyl Chloride | * | * | U | U | * | * | G | G | * |
| Thiophene (Heterocyclic) | * | * | * | * | * | * | * | * | * |
| Toluol & Toluolene | * | * | E | E | * | G | E | E | E |
| Transformer Oil | * | * | U | G | * | * | G | G | * |
| Triacetin | * | * | * | * | * | * | * | * | * |
| Tributyl Phosphate | * | * | U | E | * | * | G | G | * |
| Trichlorethylene | * | * | G | G | * | G | E | E | * |
| Trichloroacetic Acid | * | * | * | * | * | G | * | * | * |
| Trichloroacetic Acid | * | * | * | U | * | U | * | E | * |
| Trichloroethane | * | * | * | * | * | * | * | * | * |
| Triethoanolamine | * | * | U | U | * | * | U | G | * |
| Triethylamine | * | * | * | G | * | * | G | * | * |
| Triethylborane | * | * | * | * | * | * | * | * | * |

| Code | Description |
|---|---|
| E | Excellent |
| G | Good |
| P | Poor |
| U | Unsatisfactory |
| * | No Information Available |

# Metal Goods Material Compatibility

| Fluid | C.I. | D.I. | C.S. | 316 SS | 304 SS | Al. Brz. | Monel | Hastelloy | Titanium |
|---|---|---|---|---|---|---|---|---|---|
| Triethynolamine | * | U | * | E | * | U | * | E | * |
| Trinitrotoluene | * | * | * | E | * | * | * | * | * |
| Triphenyl Phosphate | * | * | * | E | * | * | * | * | * |
| Trisodium Phosphate | * | * | G | E | * | G | G | E | * |
| Tung Oil | * | * | * | E | * | * | * | * | * |
| Turbine Oil | * | E | * | E | * | E | * | * | * |
| Turpentine | * | * | U | E | * | U | G | G | U |
| Uran | * | * | * | * | * | * | * | * | * |
| Urea | * | * | G | G | * | * | U | G | E |
| Varnish | * | * | U | E | * | U | E | G | * |
| Vegetable Oil | * | U | G | E | * | G | G | G | * |
| Vinegar 70F | * | * | U | E | * | U | U | G | U |
| Vinyl Acetate | * | * | G | E | * | * | E | E | G |
| Vinyl Chloride | * | U | * | E | * | U | * | E | * |
| Walnut Oil | * | * | * | E | * | * | * | * | * |
| Water (Sea/Salt) | * | * | * | G | * | G | * | * | * |
| Water - Acid-Mine | * | * | U | E | * | U | * | G | G |
| Water - Colling ClosedSys | * | * | U | * | * | E | * | * | * |
| Water - Cooling | * | U | * | E | * | E | * | * | * |
| Water - Cooling Open Sys | * | E | E | E | * | E | * | * | * |
| Water - Distilled | * | U | U | E | * | * | U | E | * |
| Water - Distilled (Labor.) | * | U | * | E | * | U | E | E | * |
| Water - Drinking | * | G | G | E | * | E | * | E | * |
| Water - Hot Water Heating | * | U | * | E | * | E | * | * | * |
| Water - Steeped / Breweries | * | U | * | E | * | G | * | E | * |
| Water - Swimming Pool | * | U | * | E | * | E | * | * | * |
| Water - Demineralized | * | * | * | E | * | E | * | * | * |
| Water - Fresh 180F | * | * | * | E | * | E | * | * | * |
| Water - Fresh 225F | * | * | * | E | * | E | * | * | * |
| Water - Salt 180F | * | * | U | G | * | U | G | E | U |
| Water - Sewage 80F | * | * | G | E | * | U | E | * | G |
| Waxes | * | * | * | E | * | E | * | * | * |
| White Liquor | * | * | P | E | * | * | P | G | * |
| Wine | * | U | U | E | * | * | U | E | * |
| Wiskey & Wines | * | * | U | E | * | * | G | E | G |
| Wood (Methyl) Alcohol | * | G | * | E | * | E | * | U | * |
| Wood (Methyl-) Alcohol | * | G | * | E | * | E | * | U | * |
| Wood Alcohol | * | G | * | E | * | E | * | * | * |
| Wood Oil | * | * | * | E | * | * | * | * | * |
| Wood Pulp - Acid Soln | * | U | * | E | * | U | * | * | * |
| Wort (Breweries) | * | U | * | E | * | G | * | * | * |
| Xylene - Xylol | * | * | G | E | * | G | E | E | E |
| Xylol | * | U | * | E | * | E | * | E | * |
| Zinc Acetate | * | * | * | * | * | * | * | * | * |

| Code | Description |
|---|---|
| E | Excellent |
| G | Good |
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| Metal Goods Material Compatibility | | | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|
| **Fluid** | **C.I.** | **D.I.** | **C.S.** | **316 SS** | **304 SS** | **Al. Brz.** | **Monel** | **Hastelloy** | **Titanium** | **Code** | **Description** |
| | | | | | | | | | | E | Excellent |
| | | | | | | | | | | G | Good |
| | | | | | | | | | | P | Poor |
| | | | | | | | | | | U | Unsatisfactory |
| | | | | | | | | | | * | No Information Available |
| Zinc Chloride (5% @ 160F) | * | * | * | G | * | U | * | * | * | | |
| Zinc Nitrate | * | * | * | G | * | * | * | * | * | | |
| Zinc Sulphate | * | * | * | E | * | E | * | * | * | | |

Notes:

This Material Selection Chart is to considered as a guide only. Since detailed information such as temperature, concentration, etc. is unknown, it cannot be considered as exact. The information is provided in conformance with the best current Industrial Technology regarding the specific subject. In all cases, selection requires sound Engineering judgment and additional information may be required.