

CHEMICAL RESISTANCE CHART

This information should be considered as a guide rather than a recommendation. The resistance of plastics and elastomers can be affected by concentration, temperature, presence of other chemicals and other factors.

CHEMICAL EFFECT RATINGS

- No Effect - Excellent
- Minor Effect - Good
- Moderate Effect - Fair
- Severe Effect - Poor
- Not Tested

EXPLANATION OF DOTS

- Satisfactory to 72° F
- Satisfactory to 120° F

| | ABS | EPDM | NYLON | POLYETHYLENE | POLYPROPYLENE | PVC |
|--|-----|------|-------|--------------|---------------|-----|
| Acetaldehyde | | | | | | |
| Acetamide | | | | | | |
| Acetate Solvent | | | | | | |
| Acetic Acid Glacial | | | | | | |
| Acetic Acid 20% | | | | | | |
| Acetic Acid | | | | | | |
| Acetic Anhydride | | | | | | |
| Acetone | | | | | | |
| Acetyl Chloride (dry) | | | | | | |
| Acetylene | | | | | | |
| Alcohols: Amyl | | | | | | |
| Benzyl | | | | | | |
| Butyl | | | | | | |
| Diacetone | | | | | | |
| Ethyl | | | | | | |
| Hexyl | | | | | | |
| Isobutyl | | | | | | |
| Isopropyl | | | | | | |
| Methyl | | | | | | |
| Octyl | | | | | | |
| Propyl | | | | | | |
| Aluminum Chloride | | | | | | |
| Aluminum Fluoride | | | | | | |
| Aluminum Hydroxide | | | | | | |
| Aluminum Potassium Sulfate 100% | | | | | | |
| Aluminum Sulfate | | | | | | |
| Amines | | | | | | |
| Ammonia 10% | | | | | | |
| Ammonia, anhydrous | | | | | | |
| Ammonia, liquid | | | | | | |
| Ammonia Nitrate | | | | | | |
| Ammonium Bifluoride | | | | | | |
| Ammonium Carbonate | | | | | | |
| Ammonium Chloride | | | | | | |
| Ammonium Hydroxide | | | | | | |
| Ammonium Nitrate | | | | | | |
| Ammonium Persulfate | | | | | | |
| Ammonium Phosphate, Dibasic | | | | | | |
| Ammonium Phosphate, Monobasic | | | | | | |
| Ammonium Phosphate, Tribasic | | | | | | |
| Ammonium Sulfate | | | | | | |
| Amyl Acetate | | | | | | |
| Amyl Alcohol | | | | | | |
| Amyl Chloride | | | | | | |
| Aniline | | | | | | |
| Anti-Freeze | | | | | | |
| Antimony Trichloride | | | | | | |
| Aqua Regina (80% HCl, 20% HNO ₃) | | | | | | |
| Aromatic Hydrocarbons | | | | | | |
| Arsenic Acid | | | | | | |
| Barium Carbonate | | | | | | |
| Barium Chloride | | | | | | |
| Barium Cyanide | | | | | | |
| Barium Hydroxide | | | | | | |
| Barium Nitrate | | | | | | |
| Barium Sulfate | | | | | | |
| Barium Sulfide | | | | | | |
| Beer | | | | | | |
| Beet Sugar Liquids | | | | | | |
| Benzaldehyde | | | | | | |
| Benzene | | | | | | |
| Benzoic Acid | | | | | | |
| Borax (Sodium Borate) | | | | | | |
| Boric Acid | | | | | | |
| Bromine | | | | | | |
| Butadiene | | | | | | |
| Butane | | | | | | |
| Butanol (Butyl Alcohol) | | | | | | |
| Butylene | | | | | | |
| Butylacetate | | | | | | |
| Butyric Acid | | | | | | |
| Calcium Bisulfide | | | | | | |
| Calcium Bisulfite | | | | | | |
| Calcium Carbonate | | | | | | |
| Calcium Chloride | | | | | | |
| Calcium Hydroxide | | | | | | |
| Calcium Hypochlorite | | | | | | |
| Calcium Sulfate | | | | | | |
| Carbolic Acid (see Phenol) | | | | | | |
| Carbon Bisulfide | | | | | | |
| Carbon Dioxide | | | | | | |
| Carbon Disulfide | | | | | | |
| Carbon Monoxide | | | | | | |
| Carbon Tetrachloride | | | | | | |
| Carbonated Water | | | | | | |
| Carbonic Acid | | | | | | |
| Chloroacetic Acid | | | | | | |
| Chlorine, anhydrous liquid | | | | | | |
| Chlorine, dry | | | | | | |
| Chlorine Water | | | | | | |
| Chlorobenzene (Mono) | | | | | | |
| Chloroform | | | | | | |
| Chlorosulfonic Acid | | | | | | |
| Chromic Acid 5% | | | | | | |
| Chromic Acid 30% | | | | | | |
| Chromic Acid 50% | | | | | | |
| Citric Acid | | | | | | |
| Clorox (Bleach) | | | | | | |
| Copper Chloride | | | | | | |
| Copper Cyanide | | | | | | |
| Copper Nitrate | | | | | | |
| Copper Sulfate 5% | | | | | | |
| Corn | | | | | | |
| Cotton Seed | | | | | | |
| Creosote | | | | | | |
| Cresols | | | | | | |
| Cresylic Acid | | | | | | |
| Cyclohexane | | | | | | |
| Derergents | | | | | | |
| Dichlorethane | | | | | | |
| Diesel Fuel | | | | | | |
| Diesel Fuel (20, 30, 40, 50) | | | | | | |
| Diethylamine | | | | | | |
| Diethylene Glycol | | | | | | |
| Epsom Salts (Magnesium Sulfate) | | | | | | |
| Ethane | | | | | | |
| Ethanolamine | | | | | | |
| Ether ² | | | | | | |
| Ethyl Acetate | | | | | | |
| Ethyl Chloride | | | | | | |
| Ethylene Chloride | | | | | | |
| Ethylene Dichloride | | | | | | |
| Ethylene Glycol | | | | | | |
| Ethylene Oxide | | | | | | |
| Fatty Acids | | | | | | |
| Ferric Chloride | | | | | | |
| Ferric Nitrate | | | | | | |
| Ferric Sulfate | | | | | | |
| Ferrous Chloride | | | | | | |
| Ferrous Sulfate | | | | | | |
| Fluoboric Acid | | | | | | |
| Fluorine | | | | | | |
| Flyosilicic Acid | | | | | | |
| Formaldehyde 40% | | | | | | |
| Formaldehyde 100% | | | | | | |
| Formic Acid | | | | | | |
| Freon 12 | | | | | | |
| Freon 113 | | | | | | |
| Fuel (1, 2, 3, 5A, 5B, 6) | | | | | | |
| Fuel Oils | | | | | | |
| Furan Resin | | | | | | |
| Furfural | | | | | | |
| Gallic Acid | | | | | | |
| Gasoline | | | | | | |
| Glucose | | | | | | |
| Glycerin | | | | | | |
| Glycolic Acid | | | | | | |
| Heptane | | | | | | |
| Hexane | | | | | | |
| Hydraulic Oil (Petro) | | | | | | |

| | ABS | EPDM | NYLON | POLYETHYLENE | POLYPROPYLENE | PVC |
|----------------------------|-----|------|-------|--------------|---------------|-----|
| Hydraulic Oil (Synthetic) | | | * | * | * | * |
| Hydrobromic Acid 20% | | | ** | ** | ** | ** |
| Hydrobromic Acid 100% | | | * | * | * | * |
| Hydrobromic Acid, Dry Gas | | | * | ** | ** | ** |
| Hydrochloric Acid 20% | | | * | * | * | * |
| Hydrochloric Acid 37% | | | ** | ** | ** | ** |
| Hydrochloric Acid 100% | | | * | * | * | * |
| Hydrocyanic Acid | | | * | ** | ** | * |
| Hydrocyanic Acid (Gas 10%) | | | * | * | * | * |
| Hydrofluoric Acid 20% | | * | * | * | * | * |
| Hydrofluoric Acid 100% | | * | * | * | * | * |
| Hydrofluosilicic Acid 20% | | | ** | ** | ** | ** |
| Hydrofluosilicic Acid 100% | | | * | * | * | * |
| Hydrogen Gas | | | ** | ** | ** | ** |
| Hydrogen Peroxide 50% | | | * | ** | * | * |
| Hydrogen Peroxide 100% | | | ** | ** | ** | ** |
| Hydrogen Sulfide (aqua) | | | * | * | * | * |
| Hydrogen Sulfide (dry) | | | * | * | * | * |
| Hydroxyacetic Acid 70% | | | * | * | * | * |
| Iodine | | | * | * | * | * |
| Isopropyl Acetate | | | * | * | * | * |
| Isopropyl Ether | | | * | * | * | * |
| Jet Fuel (JP3, -4, -5) | | | * | * | * | * |
| Kerosene | | | * | * | * | * |
| Ketones | | | ** | ** | ** | ** |
| Lacquers | | | * | * | * | * |
| Lacquer Thinners | | | * | * | * | * |
| Lactic Acid | | | * | * | * | * |
| Lard | | | * | * | * | * |
| Lead Acetate | | | * | * | * | * |
| Lead Sulfamate | | | * | * | * | * |
| Lime | | | * | * | * | * |
| Linseed | | | * | * | * | * |
| Lubricants | | | * | * | * | * |
| Magnesium Carbonate | | | * | * | * | * |
| Magnesium Chloride | | | * | * | * | * |
| Magnesium Hydroxide | | | * | * | * | * |
| Magnesium Nitrate | | | * | * | * | * |
| Magnesium Sulfate | | | * | * | * | * |
| Maleic Acid | | | * | * | * | * |
| Malic Acid | | | * | * | * | * |
| Mercuric Chloride (Dilute) | | | * | * | * | * |
| Mercuric Cyanide | | | * | * | * | * |
| Mercury | | | ** | ** | ** | ** |
| Methanol (Methyl Alcohol) | | | * | * | * | * |
| Methyl Acetate | | | * | * | * | * |
| Methyl Alcohol 10% | | | * | * | * | * |
| Methyl Bromide | | | * | * | * | * |
| Methyl Butyl Ketone | | | * | * | * | * |
| Methyl Cellosolve | | | * | * | * | * |
| Methyl Chloride | | | * | * | * | * |
| Methyl Dichloride | | | * | * | * | * |
| Methyl Ethyl Ketone | | | * | * | * | * |
| Methyl Isobutyl Ketone | | | * | * | * | * |
| Methylene Chloride | | | * | * | * | * |
| Milk | | | * | * | * | * |
| Mineral Oil | | | * | * | * | * |
| Molasses | | | * | * | * | * |
| Naphtha | | | * | * | * | * |
| Naphthalene | | | * | * | * | * |
| Nickel Chloride | | | * | * | * | * |
| Nickel Sulfate | | | * | * | * | * |
| Nitric Acid (5-10%) | | | * | * | * | * |
| Nitric Acid (20%) | | | * | * | * | * |
| Nitric Acid (50%) | | | * | * | * | * |
| Nitric Acid (Concentrated) | | | * | * | * | * |
| Nitrobenzene | | | * | * | * | * |
| Olive Oil | | | * | * | * | * |
| Pine Oil | | | * | * | * | * |
| Rosin Oil | | | * | * | * | * |
| Silicone Oil | | | * | * | * | * |
| Soybean Oil | | | * | * | * | * |
| Turbine Oil | | | * | * | * | * |
| Oleic Acid | | | ** | ** | ** | ** |
| Oleum 25% | | | * | * | * | * |
| Oleum 100% | | | * | * | * | * |
| Oxalic Acid (cold) | | | * | * | * | * |
| Paraffin | | | * | * | * | * |
| Pentane | | | * | * | * | * |
| Perchloroethylene | | | * | * | * | * |

| | ABS | EPDM | NYLON | POLYETHYLENE | POLYPROPYLENE | PVC |
|--------------------------------------|-----|------|-------|--------------|---------------|-----|
| Petrolatum | | | * | * | * | * |
| Phenol (10%) | | | ** | ** | ** | ** |
| Phenol (Carbolic Acid) | | | * | * | * | * |
| Phosphoric Acid (<40%) | | | * | * | * | * |
| Phosphoric Acid (>40%) | | | * | * | * | * |
| Phosphoric Acid (crude) | | | * | * | * | * |
| Photographic Developer | | | * | * | * | * |
| Picric Acid | | | * | * | * | * |
| Potash | | | * | * | * | * |
| Potassium Bicarbonate | | | * | * | * | * |
| Potassium Bromide | | | * | * | * | * |
| Potassium Carbonate | | | * | * | * | * |
| Potassium Chlorate | | | * | * | * | * |
| Potassium Chloride | | | * | * | * | * |
| Potassium Chromate | | | * | * | * | * |
| Potassium Cyanide Solutions | | | * | * | * | * |
| Potassium Dichromate | | | * | * | * | * |
| Potassium Ferrocyanide | | | * | * | * | * |
| Potassium Hydroxide (Caustic Potash) | | | * | * | * | * |
| Potassium Nitrate | | | * | * | * | * |
| Potassium Permanganate | | | * | * | * | * |
| Potassium Sulfate | | | * | * | * | * |
| Potassium Sulfide | | | * | * | * | * |
| Propane (liquified) | | | * | * | * | * |
| Propylene Glycol | | | * | * | * | * |
| Pyridine | | | * | * | * | * |
| Pyrogalllic Acid | | | * | * | * | * |
| Rosins | | | * | * | * | * |
| Sea Water | | | * | * | * | * |
| Silicone | | | * | * | * | * |
| Silver Nitrate | | | * | * | * | * |
| Soap Solutions | | | * | * | * | * |
| Sodium Acetate | | | * | * | * | * |
| Sodium Bicarbonate | | | * | * | * | * |
| Sodium Bisulfate | | | * | * | * | * |
| Sodium Bisulfite | | | * | * | * | * |
| Sodium Borate | | | * | * | * | * |
| Sodium Carbonate | | | * | * | * | * |
| Sodium Chlorate | | | * | * | * | * |
| Sodium Chloride | | | * | * | * | * |
| Sodium Cyanide | | | * | * | * | * |
| Sodium Fluoride | | | * | * | * | * |
| Sodium Hydroxide (20%) | | | * | * | * | * |
| Sodium Hydroxide (50%) | | | * | * | * | * |
| Sodium Hydroxide (80%) | | | * | * | * | * |
| Sodium Hypochlorite (<20%) | | | * | * | * | * |
| Sodium Hypochlorite (100%) | | | * | * | * | * |
| Sodium Metaphosphate | | | * | * | * | * |
| Sodium Metasilicate | | | * | * | * | * |
| Sodium Nitrate | | | * | * | * | * |
| Sodium Perborate | | | * | * | * | * |
| Sodium Polyphosphate | | | * | * | * | * |
| Sodium Silicate | | | * | * | * | * |
| Sodium Sulfate | | | * | * | * | * |
| Sodium Sulfide | | | * | * | * | * |
| Sodium Tetraborate | | | * | * | * | * |
| Sodium Thiosulfate (hypo) | | | * | * | * | * |
| Stannic Chloride | | | * | * | * | * |
| Stannous Chloride | | | * | * | * | * |
| Sulfur Dioxide | | | * | * | * | * |
| Sulfur Dioxide (dry) | | | * | * | * | * |
| Sulfur Trioxide (dry) | | | * | * | * | * |
| Sulfuric Acid (<10%) | | | * | * | * | * |
| Sulfuric Acid (10-75%) | | | * | * | * | * |
| Sulfurous Acid | | | * | * | * | * |
| Tannic Acid | | | * | * | * | * |
| Tanning Liquours | | | * | * | * | * |
| Tartaric Acid | | | * | * | * | * |
| Tomato Juice | | | * | * | * | * |
| Urine | | | * | * | * | * |
| Vinegar | | | * | * | * | * |
| Water, Acid, Mine | | | * | * | * | * |
| Water, Distilled | | | * | * | * | * |
| Water, Fresh | | | * | * | * | * |
| Water, Salt | | | * | * | * | * |
| Whiskey & Wines | | | * | * | * | * |
| White Liquor (Pulp Mill) | | | * | * | * | * |
| Xylene | | | * | * | * | * |
| Zinc Chloride | | | * | * | * | * |
| Zinc Sulfate | | | * | * | * | * |