

CHEMICAL RESISTANCE DATA CHART

Chemical Resistance Key:

R - Resistant N - Not Resistant V - Variable Resistance U - Unknown

Caution Key:

(P) - Plasticizer (A) - Known Stress Crack Agent (O) - Oxidizer (B) - Suspected Stress Crack Agent

Chemical	70°F	140°F
	(21°C)	(60°C)
Acetaldehyde -100% (A)	V	N
Acetic Acid -10% (A)	R	R
Acetic Acid - 60% (A)	R	V
Acetic Anhydride (B)	N	N
Aluminum Chloride - all conc.	R	R
Aluminum Fluoride - all conc.	R	R
Aluminum Sulfate - all conc.	R	R
Alums - all types	R	R
Ammonia - 100% dry gas	R	R
Ammonium Carbonate	R	R
Ammonium Chloride - sat'd.	R	R
Ammonium Fluoride - sat'd.	R	R
Ammonium Hydroxide - 10%	R	R
Ammonium Hydroxide - 28%	R	R
Ammonium Nitrate - sat'd.	R	R
Ammonium Persulfate - sat'd.	R	R
Ammonium Sulfate - sat'd.	R	R
Ammonium Metaphosphate - sat'd.	R	R
Amyl Acetate -100% (BP)	N	N
Amyl Alcohol - 100% (AP)	R	R
Amyl Chloride -100% (P)	N	N
Aniline - 100% (AP)	N	N
Aqua Regia (O)	N	N
Arsenic Acid - all conc.	R	R
Aromatic Hydrocarbons (BP)	N	N
Ascorbic acid -10%	R	R
Barium Carbonate - sat'd.	R	R
Barium Chloride - sat'd.	R	R
Barium Hydroxide	R	R
Barium Sulfate - sat'd.	R	R
Barium Sulfide - sat'd.	R	R
Beer	R	R
Benzene (BP)	N	N
Benzoic acid - all conc.	R	R
Bismuth Carbonate - sat'd.	R	R
Bleach Lye - 10%	R	R
Borax - sat'd.	R	R
Boric acid - all conc.	R	R
Boron Trifluoride	R	R
Brine	R	R
Bromine - liquid (O)	N	N
Butanediol 10% (A)	R	R
Butanediol - 60% (A)	R	R
Butanediol -100% (A)	R	R
Butter (B)	R	R
Butyl Acetate -100% (BP)	V	N
Butyl Alcohol -100% (A)	R	R
Butyric Acid - conc. (P)	N	N
Cadmium Salts	R	R
Calcium Bisulfide	R	R

Chemical	70°F	140°F
	(21°C)	(60°C)
Calcium Carbonate - sat'd	R	R
Calcium Chlorate - sat'd.	R	R
Calcium Chloride - sat'd	R	R
Calcium Hydroxide - conc.	R	R
Calcium Hypochlorite - bleach soln.	R	R
Calcium Nitrate - 50%	R	R
Calcium Oxide - sat'd.	R	R
Calcium Salts	R	R
Calcium Sulfate	R	R
Camphor Oil (BP)	N	N
Carbon Dioxide - all conc.	R	R
Carbon Disulphide	N	N
Carbon Monoxide	R	R
Carbon Tetrachloride (P)	N	N
Carbonic Acid	R	R
Castor Oil - conc. (A)	R	R
Chlorine -100% dry gas (O)	V	N
Chlorine Liquid (O)	N	N
Chlorine Water- 2% sat'd sol'n	V	N
Chlorobenzene (BP)	R	N
Chlorofoam (BP)	N	N
Chlorosulfonic Acid -100%	V	N
Chromic Acid - 10%	R	R
Chromic Acid - 50%	R	V
Cider (A)	R	R
Citric Acid - sat'd. (A)	R	R
Coconut Oil Alcohols (A)	R	R
Coffee	R	R
Cola Concentrates (A)	R	R
Copper Chloride - sat'd.	R	R
Copper Cyanide - sat'd.	R	R
Copper Fluoride - 2%	R	R
Copper Nitrate - sat'd.	R	R
Copper Sulfate - sat'd.	R	R
Corn Oil (A)	R	R
Cottonseed Oil (A)	R	R
Cresol - 100%	N	N
Cuprous Chloride - sat'd.	R	R
Detergents, synthetic (A)	V	V
Developers, photographic	R	R
Dextrin - sat'd.	R	R
Dextrose - sat'd.	R	R
Diazo Salts	R	R
Dibutylphthalate (B)	V	V
Dichlorobenzene (BP)	R	R
Diethyl Ketone (BP)	V	N
Diethylene Glycol (A)	R	R
Diglycolic Acid (A)	R	R
Dimethylamine	N	N
Disodium Phosphate	R	R

The information contained within this chart is based upon data supplied by resin manufacturers and is intended to be a general guide. Note that this data does not encompass all applications or service temperatures. For this reason, Den Hartog Industries, Inc. makes no claim as to the accuracy of this data and recommends that in all cases the final determination of suitability between the chemical(s) to be contained and the polyethylene tank material be verified with the chemical manufacturer(s).

CHEMICAL RESISTANCE DATA CHART

Chemical Resistance Key:

R - Resistant N - Not Resistant V - Variable Resistance U - Unknown

Caution Key:

(P) - Plasticizer (A) - Known Stress Crack Agent (O) - Oxidizer (B) - Suspected Stress Crack Agent

Chemical	70°F	140°F
	(21°C)	(60°C)
Emulsions, photographic (A)	R	R
Epsom Salts - Magnesium Sulfate	R	R
Ethyl Acetate -100% (BP)	V	N
Ethyl Alcohol -100% (A)	R	R
Ethyl Alcohol - 35% (A)	R	R
Ethyl Benzene (BP)	N	N
Ethyl Chloride (P)	N	N
Ethyl Ether (P)	N	N
Ethylene Chloride (BP)	N	N
Ethylene Glycol (A)	R	R
Fatty Acids (A)	R	R
Ferric Chloride - sat'd.	R	R
Ferric Nitrate - sat'd.	R	R
Ferrous Chloride - sat'd	R	R
Ferrous Sulfate	R	R
Fish Solubles (A)	R	R
Fluoboric Acid	R	R
Fluosilicic kid - conc.	R	V
Fluosilicic kid - 32%	R	R
Formic Acid - all conc.	R	R
Fructose - sat'd.	R	R
Fruit Pulp (B)	R	R
Furfural -100% (P)	N	N
Furfuryl Alcohol (BP)	N	N
Gallic Acid - sat'd. (A)	R	R
Gasoline (PB)	N	N
Glucose	R	R
Glycerine (A)	R	R
Glycol (A)	R	R
Glycolic Acid - 30% (A)	R	R
Grape Sugar- sat. ag	R	R
Heptane (PB)	N	N
Hexachlorobenzens	R	R
Hexanol, Tertiary (A)	R	R
Hydrobromic Acid - 50%	R	R
Hydrochloric Acid - all conc.	R	R
Hydrocyanic Acid - sat'd.	R	R
Hydrofluoric Acid - 40% (A)	R	R
Hydrofluoric Acid - 60% (A)	R	R
Hydrogen -100%	R	R
Hydrogen Chloride - dry gas	R	R
Hydrogen Peroxide - 30%	R	V
Hydrogen Sulfide	R	R
Hypochlorous Acid - conc	R	R
Inks (A)	R	R
Iodine - in KI Sol'n (O)	V	N
Lead Acetate - sat'd.	R	R
Lead Nitrate	R	R

Chemical	70°F	140°F
	(21°C)	(60°C)
Lime	R	R
Magnesium Carbonate - sat'd	R	R
Magnesium Chloride - sat'd.	R	R
Magnesium Hydroxide - sat'd.	R	R
Magnesium Nitrate - sat'd.	R	R
Magnesium Sulfate - sat'd.	R	R
Mercuric Chloride - 40%	R	R
Mercuric Cyanide - sat'd	R	R
Methyl Alcohol -100% (A)	R	R
Methylene Chloride -100% (PB)	N	N
Milk	R	R
Mineral Oils (P)	V	N
Molasses	R	R
Naphtha (PA)	N	N
Naphthalene (PB)	N	N
Nickel Chloride - conc.	R	R
Nickel Nitrate - sat'd.	R	R
Nickel Sulfate - conc.	R	R
Nicotine - dilute (A)	R	R
Nitric Acid - 0-30%	R	R
Nitric Acid - 30-50% (O)	R	V
Nitric Acid - 70% (O)	R	V
Nitric Acid - 95-98% (O)	N	N
Nitrobenzene -100% (PB)	N	N
Nonyl phenol ethoxylate (B)	N	N
Octane	R	R
Oxalic Acid - sat'd. (A)	R	R
Perchloroethylene (P)	N	N
Phosphorous Pentoxide	V	N
Photographic Solutions	R	R
Plating Solutions	R	R
Brass (A)	R	R
Cadmium (A)	R	R
Gold (A)	R	R
Nickel (A)	R	R
Silver (A)	R	R
Tin (A)	R	R
Zinc (A)	R	R
Potassium Acetate	R	R
Potasstum Bicarbonate - sat'd.	R	R
Potassium Bromate -10%	R	R
Potassium Bromide - sat'd	R	R
Potassium Carbonate	R	R
Potassium Chlorate - sat'd.	R	R
Potassium Chloride - sat'd.	R	R
Potassium Chromate - 40%	R	R
Potassium Cyanide - sat'd	R	R
Potassium Dichromate - 40%	R	R
Potassium Ferri/Ferro Cyanide sat'd.	R	R

The information contained within this chart is based upon data supplied by resin manufacturers and is intended to be a general guide. Note that this data does not encompass all applications or service temperatures. For this reason, Den Hartog Industries, Inc. makes no claim as to the accuracy of this data and recommends that in all cases the final determination of suitability between the chemical(s) to be contained and the polyethylene tank material be verified with the chemical manufacturer(s).

CHEMICAL RESISTANCE DATA CHART

Chemical Resistance Key:

R - Resistant N - Not Resistant V - Variable Resistance U - Unknown

Caution Key:

(P) - Plasticizer (A) - Known Stress Crack Agent (O) - Oxidizer (B) - Suspected Stress Crack Agent

Chemical	70°F	140°F
	(21°C)	(60°C)
Potassium Fluoride	R	R
Potassium Hydroxide - 20%	R	R
Potassium Hydroxide - conc.	R	R
Potassium Nitrate - sat'd.	R	R
Potassium Perchlorate -10%	R	R
Potassium Permanganate - 20%	R	R
Potassium Persulfate - sat'd.	R	R
Potassium Sulfate - conc	R	R
Potassium Sulfide - conc.	R	R
Potassium Sulfite - conc.	R	R
Propargyl Alcohol (A)	R	R
Propyl Alcohol (A)	R	R
Propylene Dichloride -100% (PB)	N	N
Propylene Glycol (A)	R	R
Pyridine (B)	R	U
Rayon Coagulating Bath (B)	R	R
Resorcinol - sat'd.	R	R
Salicylic Acid - sat'd.	R	R
Sea Water	R	R
Selenic acid	R	R
Shortening (A)	R	R
Silver Nitrate Solution	R	R
Soap Solution - any conc. (A)	V	V
Sodium Acetate - sat'd.	R	R
Sodium Benzoate - 35%	R	R
Sodium Bicarbonate - sat'd	R	R
Sodium Bisulfate - sat'd	R	R
Sodium Bisulfite - sat'd	R	R
Sodium Borate	R	R
Sodium Bromide - dilute	R	R
Sodium Carbonate - conc	R	R
Sodium Chlorate - sat'd.	R	R
Sodium Chloride - sat'd	R	R
Sodium Chlorite-30%	R	R
Sodium Chlorite-50%	R	V
Sodium Cyanide	R	R
Sodium Dichromate - sat'd.	R	R
Sodium Ferri/Ferro Cyanide - sat'd	R	R
Sodium Fluoride - sat'd.	R	R
Sodium Hydroxide - conc.	R	R
Sodium Hydroxide 35% or less	R	V
Sodium Hydroxide 50% or above	V	N
Sodium Hypochlorite 0-12%	R	R
Sodium Hypochlorite 12-16.5%	R	V
Sodium Hypochlorite 16.5 or higher	N	N
Sodium Nitrate	R	R
Sodium Sulfate	R	R
Sodium Sulfide - sat'd.	R	R
Sodium Sulfite - sat'd.	R	R
Sodium thiosulphate pentahydrate	V	U

Chemical	70°F	140°F
	(21°C)	(60°C)
Stannic Chloride - sat'd.	R	R
Stannous Chloride - sat'd.	R	R
Starch Solution - sat'd. (A)	R	R
Stearic Acid -100% (A)	R	R
Sulfuric Acid - 0-50%	R	R
Sulfuric Acid - 70% (O)	R	V
Sulfuric Acid - 80% (O)	V	N
Sulfuric Acid - 96% (O)	V	N
Sulfuric Acid - 98% conc. (O)	N	N
Sulfuric Acid - fuming (O)	N	N
Sulfurous Acid	R	R
Tallow (P)	R	V
Tannic Acid - sat'd (A)	R	R
Tartaric Acid - 10%	R	R
Tetrahydrofuran	N	N
Titanium Tetrachloride - sat'd. (B)	N	N
Toluene (PB)	N	N
Transformer Oil	V	N
Trichloroethylene (PB)	N	N
Triethylene Glycol (B)	R	R
Trisodium Phosphate - sat'd	R	R
Turpentine (P)	N	N
Urea - 0-30%	R	R
Urine	R	R
Vanilla Extract (A)	R	R
Varnish	R	N
Vinegar	R	R
Water	R	R
Wetting Agents (A)	V	V
Whiskey (A)	R	R
Wines (B)	R	R
Xylene (P)	N	N
Yeast	R	R
Zinc Bromide - sat'd.	R	R
Zinc Carbonate - sat'd	R	R
Zinc Chloride - sat'd	R	R
Zinc Oxide - sat'd	R	R
Zinc Stearate	R	R
Zinc Sulfate - sat'd	R	R

The information contained within this chart is based upon data supplied by resin manufacturers and is intended to be a general guide. Note that this data does not encompass all applications or service temperatures. For this reason, Den Hartog Industries, Inc. makes no claim as to the accuracy of this data and recommends that in all cases the final determination of suitability between the chemical(s) to be contained and the polyethylene tank material be verified with the chemical manufacturer(s).