

Chemical Resistance of HDPE Pipes

aquaspira



LAST UPDATED FEBRUARY 2024

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Document Owner	Technical Director
Document Reference	Chemical Resistance of HDPE Pipes
Revision Number	01
Date	09/02/24

S Satisfactory **U** Unsatisfactory **M** Marginal **N** Not known

	Temperature of liquid			Temperature of liquid	
	70 °F	140 °F		70 °F	140 °F
	21 °C	60 °C		21 °C	60 °C
Acetic Acid 1-10%	S	S	Bromic Acid 10%	S	S
Acetic Acid 10-60%	S	M	Bromine Liquid 100%	M	U
Acetic Acid 80-100%	S	M	Butanediol 10%	S	S
Acetone	M	U	Butanediol 60%	S	S
Acrylic Emulsions	S	S	Butanediol 100%	S	S
Aluminum Chloride-Dilute	S	S	Butyl Alcohol 100%	S	S
Aluminum Chloride Conc.	S	S	Calcium Bisulfide	S	S
Aluminum Fluoride Conc.	S	S	Calcium Chloride Saturated	S	S
Aluminum Sulfate Conc.	S	S	Calcium Hydroxide	S	S
Alums (All Types) Conc.	S	S	Calcium Hypochlorite RRGH	S	S
Ammonia 100% Dry Gas	S	S	Calcium Nitrate 50%	S	S
Ammonium Carbonate	S	S	Calcium Sulfate	S	S
Ammonium Chloride Saturated	S	S	Camphor Oil	N	U
Ammonium Fluoride 20%	S	S	Carbon Dioxide 100% Dry	S	S
Ammonium Hydroxide 0.8S S.G.	S	S	Carbon Dioxide 100%Wet	S	S
Ammonium Metaphosphate Sat'd	S	S	Carbon Dioxide Cold Sat'd	S	S
Ammonium Nitrate Saturated	S	S	Carbon Disulfide	N	U
Ammonium Persulfate Saturated	S	S	Carbon Monoxide	S	S
Ammonium Sulfate Saturated	S	S	Carbon Tetrachloride	M	U
Ammonium Sulfide Saturated	S	S	Carbonic Acid	S	S
Ammonium Thiocyanate Sat'd	S	S	Castor Oil Conc.	S	S
Amyl Acetate	M	U	Chlorine Dry Gas 100%	S	M
Amyl Alcohol 100%	S	S	Chlorine Moist Gas	M	U
Amyl Chloride 100%	N	U	Chlorine Liquid	M	U
Aniline 100%	S	N	Chlorobenzene	M	U
Antimony Chloride	S	S	Chloroform	M	U
Aqua Regia	U	U	Chlorosulfonic Acid 100%	M	U
Barium Carbonate Saturated	S	S	Chrome Alum Saturated	S	S
Barium Chloride	S	S	Chromic Acid 20%	S	S
Barium Hydroxide	S	S	Chromic Acid Up to 50%	S	S
Barium Sulfate Saturated	S	S	Chromic Acid and Sulfuric Acid	S	M
Barium Sulfide Saturated	S	S	Cider	S	S
Beer	S	S	Citric Acid Saturated	S	S
Benzene	M	U	Coconut Oil Alcohols	S	S
Benzene Sulfonic Acid	S	S	Cola Concentrates	S	S
Bismuth Carbonate Saturated	S	S	Copper Chloride Saturated	S	S
Bleach Lye 10%	S	S	Copper Cyanide Saturated	S	S
Black Liquor	S	S	Copper Fluoride 2%	S	S
Borax Cold Saturated	S	S	Copper Nitrate Saturated	S	S
Boric Acid Dilute	S	S	Copper Sulfate Dilute	S	S
Boric Acid Conc.	S	S	Copper Sulfate Saturated	S	S

	Temperature of liquid			Temperature of liquid	
	70 °F	140 °F		70 °F	140 °F
	21 °C	60 °C		21 °C	60 °C
Cottonseed Oil	S	S	Glucose	S	S
Crude Oil	S	M	Glycerine	S	S
Cuprous Chloride Saturated	S	S	Glycol	S	S
Cyclohexanol	S	S	Glycolic Acid 30%	S	S
Cyclohexanone	M	U	Grape Sugar Saturated Aq.	S	S
Detergents Synthetic	S	S	Hexanol, Tertiary.	S	S
Developers, Photographic	S	S	Hydrobromic Acid 50i/O	S	S
Dextrin Saturated	S	S	Hydrocyanic Acid Saturated	S	S
Dextrose Saturated	S	S	Hydrochloric Acid 10%	S	S
Dibutyl phthalate	S	M	Hydrochloric Acid 30%	S	S
Disodium Phosphate	S	S	Hydrochloric Acid 35%	S	S
Diazo Salts	S	S	Hydrochloric Acid Conc.	S	S
Diethylene Glycol	S	S	Hydrofluoric Acid 40%	S	S
Diglycolic Acid	S	S	Hydrofluoric Acid 60%	S	S
Dimethylamine	M	U	Hydrofluoric Acid 75%	S	S
Emulsions, Photographic	S	S	Hydrogen 100%	S	S
Ethyl Acetate 100%	M	U	Hydrogen Bromide 10%	S	S
Ethyl Alcohol 100%	S	S	Hydrogen Chloride Gas Dry	S	S
Ethyl Alcohol 35%	S	S	Hydrogen Peroxide 30%	S	S
Ethyl butyrate	M	U	Hydrogen Peroxide 90%	S	M
Ethyl Chloride	M	U	Hydrogen Phosphide 100%	S	S
Ethyl Ether	U	U	Hydroquinone	S	S
Ethylene Chloride	U	U	Hydrogen Sulfide	S	S
Ethylene Chlorohydrin	U	U	Hypochlorous Acid Conc.	S	S
Ethylene Glycol	S	S	Inks	S	S
Ferric Chloride Saturated	S	S	Iodine (Alc. Sol.) Conc.	S	U
Ferric Nitrate Saturated	S	S	Lactic Acid 10%	S	S
Ferrous Chloride Saturated	S	S	Lactic Acid 90i/O	S	S
Ferrous Sulfate	S	S	Latex	S	S
Fish Solubles	S	S	Lead Acetate Saturated	S	S
Fluoboric Acid	S	S	Lube Oil	S	M
Fluorine	S	U	Magnesium Carbonate Sat'd	S	S
Fluosilicic Acid 32%	S	S	Magnesium Chloride Sat'd	S	S
Fluosilicic Acid Conc.	S	S	Magnesium Hydroxide Sat'd	S	S
Formaldehyde 40%	S	N	Magnesium Nitrate Sat'd	S	S
Formic Acid 0-20%	S	S	Mercuric Chloride Saturated	S	S
Formic Acid 20-50%	S	S	Mercuric Cyanide Saturated	S	S
Formic Acid 100%	S	S	Mercurous Nitrate Saturated	S	S
Fructose Saturated	S	S	Mercury	S	S
Fruit Pulp	S	S	Methyl Alcohol 100%	S	S
Fuel Oil	S	U	Methyl Bromide	M	U
Furfural 100%	M	U	Methyl Chloride	M	U
Furfuryl Alcohol	M	U	Methyl Ethyl Ketone 100%	M	U
Gallic Acid Saturated	S	S	Methyl Sulfuric Acid	S	S
Gas Liquids	S	M	Methylene Chloride 100%	M	U
Gasoline	M	U	Milk	S	S
Gin	S	U	Mineral Oils	S	U

	Temperature of liquid			Temperature of liquid	
	70 °F	140 °F		70 °F	140 °F
	21 °C	60 °C		21 °C	60 °C
Molasses Comm.	S	S	Potassium Persulfate Sat'd	S	S
Nickel Chloride Saturated	S	S	Propargyl Alcohol	S	S
Nickel Nitrate Conc.	S	S	Propyl Alcohol	S	S
Nickel Sulfate Saturated	S	S	Propylene Dichloride 100%	U	U
Nicotine Dilute	S	S	Propylene Glycol	S	S
Nicotinic Acid	S	S	Rayon Coagulating Bath	S	S
Nitric Acid 0-30%	S	S	Sea Water	S	S
Nitric Acid 30-50%	S	M	Selenic Acid	S	S
Nitric Acid 70%	S	M	Shortening	S	S
Nitric Acid 95-98%	U	U	Silicic Acid	S	S
Nitrobenzene 100%	U	U	Silver Nitrate Sol.	S	S
Octyl Cresol	S	U	Soap Solution Any Conc'n	S	S
Oils and Fats	S	M	Sodium Acetate Saturated	S	S
Oleic Acid Conc.	S	U	Sodium Benzoate 35%	S	S
Oleum Conc.	U	U	Sodium Bicarbonate Sat'd	S	S
Orange Extract	S	S	Sodium Bisulfate Saturated	S	S
Oxalic Acid Dilute	S	S	Sodium Bisulfite Saturated	S	S
Oxalic Acid Saturated	S	S	Sodium Borate	S	S
Ozone 100%	S	U	Sodium Bromide Dilute Sol.	S	S
Perchloric Acid 10%	S	S	Sodium Carbonate Con.	S	S
Petroleum Ether	U	U	Sodium Carbonate	S	S
Phenol 90%	U	U	Sodium Chlorate Saturated.	S	S
Phosphoric Acid Up to 30%	S	S	Sodium Chloride Saturated	S	S
Phosphoric Acid Over 30%	S	S	Sodium Cyanide	S	S
Phosphoric Acid 90%	S	S	Sodium Dichromate Sat'd	S	S
Phosphorous (Yellow) 100%	S	N	Sodium Ferrocyanide	S	S
Phosphorus Pentoxide 100%	S	N	Sodium Ferrocyanide Sat'd	S	S
Photographic Solutions	S	S	Sodium Fluoride Saturated	S	S
Potassium Bicarbonate Saturated	S	S	Sodium Hydroxide Conc.	S	S
Potassium Borate 1%	S	S	Sodium Hypochlorite	S	S
Potassium Bromate 10%	S	S	Sodium Nitrate	S	S
Potassium Bromide Saturated	S	S	Sodium Sulfate	S	S
Potassium Carbonate	S	S	Sodium Sulfide 25%	S	S
Potassium Chlorate Saturated	S	S	Sodium Sulfide Sat'd Sol.	S	S
Potassium Chloride Saturated	S	S	Sodium Sulfite Saturated	S	S
Potassium Chromate 40%	S	S	Stannous Chloride Saturated	S	S
Potassium Cyanide Saturated	S	S	Stannic Chloride Saturated	S	S
Potassium Dichromate 40%	S	S	Starch Solution Saturated	S	S
Potassium Ferric /Ferro Cyanide Sat'd	S	S	Stearic Acid 100%	S	S
Potassium Fluoride	S	S	Sulfuric Acid 0-50%	S	S
Potassium Hydroxide 20%	S	S	Sulfuric Acid 70%	S	M
Potassium Hydroxide Conc.	S	S	Sulfuric Acid 80%	S	U
Potassium Nitrate Saturated	S	S	Sulfuric Acid 96%	M	U
Potassium Perborate Saturated	S	S	Sulfuric Acid 98%	M	U
Potassium Perchlorate 10%	S	S	Sulfuric Acid, Fuming	U	U
Potassium Sulfate Conc.	S	S	Sulfurous Acid	S	S
Potassium Sulfite Conc.	S	S	Tallow	S	M

	Temperature of liquid			Temperature of liquid	
	70 °F	140 °F		70 °F	140 °F
	21 °C	60 °C		21 °C	60 °C
Tannic Acid 10%	S	S	Pickling Baths		
Tanning Extracts Comm.	S	S	Sulfuric Acid	S	S
Tartaric Acid Saturated	N	N	Hydrochloric Acid	S	S
Tetrahydrofuran	N	U	Sulfuric-Nitric	S	U
Titanium Tetrachloride Saturated	N	U			
Toluene	M	U			
Transformer Oil	S	M	Plating Solutions		
Trisodium Phosphate Saturated	S	S	Brass	S	S
Trichloroethylene	U	U	Cadmium	S	S
Urea Up to 30%	S	S	Chromium	N	N
Vinegar Comm.	S	S	Copper	S	S
Vanilla Extract	S	S	Gold	S	S
Wetting Agents	S	S	Indium	S	S
Whiskey	S	N	Lead	S	S
Wines	S	S	Nickel	S	S
Xylene	M	U	Rhodium	S	S
Yeast	S	S	Silver	S	S
Zinc Chloride Saturated	S	S	Tin	S	S
Zinc Sulfate Saturated	S	S	Zinc	S	S