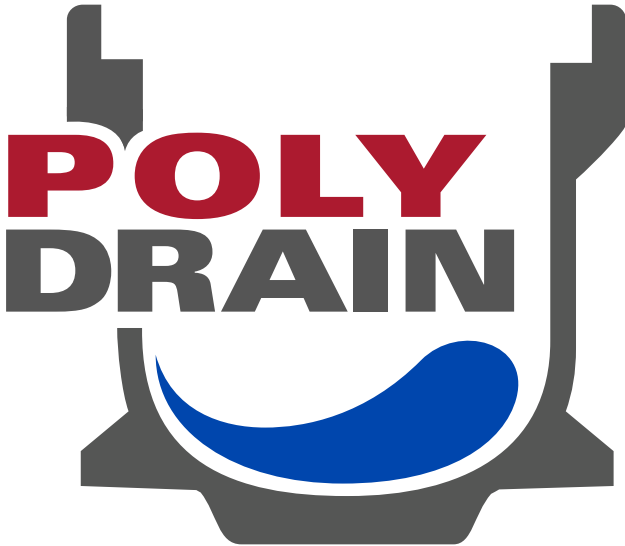


Chemical Resistance Guide



CHEMICAL RESISTANCE GUIDE

Conventional cast-in-place trench drains are susceptible to deterioration from a wide variety of chemicals, including such common and highly present substances as salt, fuel oil, sewage, gasoline, and dilute acids. Normal concrete can absorb as much as 5% moisture. Cyclic freeze and thaw is extremely detrimental causing “break-up” and deterioration.

ABT®, Inc. products are designed to withstand hostile work environments and severe weather abuse.

POLYDYN®

Standard ABT®, Inc. products are manufactured from PolyDyn; an advanced formulation of select quartz aggregates and inert mineral fillers bonded with high grade polyester resins. This unique material is suitable for most drainage applications, including all normal exterior and interior drainage involving exposure to salt, gasoline, fuel oil, and many dilute acids and alkalis.

POLYCHAMPION®

PolyChampion is formulated to resist heavily concentrated and corrosive chemicals. Special resins of vinylester, recognized for their excellent corrosion resistance, are used as binders in the polymer concrete mixture. Only inert quartz minerals are used as aggregates.

GRATINGS

ABT, Inc. offers a variety of gratings that are manufactured to offer corrosion resistance. Fiberglass mesh grates formulated with vinylester resins offer corrosion resistance properties very similar to PolyChampion. Grates are supplied with stainless steel locking devices and bolts. Slotted grates and solid covers in stainless steel are also available.

CHARTS

This guide is intended to provide engineers and designers with specific chemical resistance information for the PolyDrain system. Chemicals, test concentrations and maximum recommended temperatures for both PolyDyn and PolyChampion are listed. An asterisk (*) indicates that no data is available. N/R denotes “Not Recommended”.

When a particularly corrosive environment is being considered, or the system will be subjected to chemicals not listed in the charts, ABT, Inc. recommends that a coupon of PolyDyn and/or PolyChampion be placed in the chemical for an appropriate test period to determine suitability.

This information is presented for use by competent personnel in the selection of a corrosion resistant drainage system. The chemical resistance data has been supplied by PolyDrain resin suppliers and represents their experience, testing and analysis.

Chemical Environment	Concentration%	Recommend Max. Temp.		Chemical Environment	Concentration%	Recommend Max. Temp.	
		PolyDyn °F	PolyChampion °F			PolyDyn °F	PolyChampion °F
A				Ammonium Phosphate (Basic)	65	*	210
Acetaldehyde	All	*	N/R	Ammonium Sulfate	All	75	210
Acetic Acid	10	150	210	Ammonium Sulfide (Bisulfide)	All	*	220
	25	75	210	Ammonium Thiocyanate	20	*	210
	50	N/R	180		50	*	110
Acetic Acid, Glacial	100	*	N/R	Ammonium Thiosulfate	60	*	100
Acetone	10	*	180	Amyl Acetate	All	N/R	100
	25	150	*	Amyl Chloride	100	*	120
	50	75	*	Aniline	100	N/R	N/R
Acetonitrile	100	N/R	N/R	Aniline Hydrochloride	All	*	180
	100	*	N/R	Aniline Sulfate, saturated	20	150	*
	100	*	N/R		All	75	210
Acetophenone	100	*	N/R	Antimony Trichloride	All	75	*
Acetyl Chloride	100	*	N/R	Aqua Regia (3:1 HCl-HNO3)	All	*	N/R
Acrylic Acid, up to 25%	25	*	100	Arsenic Acid	80	*	100
Acrylic Latex	All	*	120	Arsenious Acid	20	150	180
Acrylonitrile	100	*	N/R	Arsenious Acid	100	150	*
Alcohol, Amyl	100	180	200	B			
Amyl, Alcohol	Vapor	*	150	Barium Acetate	All	*	180
Alcohol, Ethyl	95	180	100	Barium Bromide	All	*	180
Alcohol, Methyl	100	140	80	Barium Carbonate	All	175	220
Alkyl Benzene Sulfonic Acid	92	*	120	Barium Chloride	All	75	210
Allyl Alcohol	100	*	N/R	Barium Cyanide	All	*	150
Allyl Chloride	All	*	80	Barium Hydroxide	10	N/R	150
Alpha Methyl Styrene	100	*	N/R	Barium Sulfate	All	*	220
Alpha Olefin Sulfates	100	*	120	Barium Sulfide	All	N/R	180
Alum	All	180	220	Beet Sugar Liquor	All	*	180
Aluminum Chloride	100	180	220	Benzaldehyde	100	N/R	N/R
Aluminum Chlorohydrate	All	*	210	Benzene	100	75	100
Aluminum Chlorohydroxide	50	*	210	Benzene, HCl (Wet)	All	*	N/R
Aluminum Citrate	All	*	200	Benzene Sulfonic Acid	30	*	210
Aluminum Fluoride ₃	All	*	80		100	75	*
Aluminum Hydroxide	All	N/R	200	Benzene Vapor	All	*	N/R
Aluminum Nitrate	100	100	160	Benzoic Acid	All	150	210
Aluminum Potassium Sulfate	100	180	220	Benzoquinones	All	*	180
Aluminum Sulfate	All	180	220	Benzyl Alcohol	All	*	100
Amino Acids	All	*	100	Benzyl Chloride	100	*	80
Ammonia, Liquified	All	*	N/R	Black Liquor (Pulp Mill)	All	*	180
Ammonia (Dry Gas)	All	*	100	Bleach Solutions			
Ammonium Acetate	65	*	80	Calcium Hypochlorite	10	75	180
Ammonium Benzoate	All	*	80	Chlorine Dioxide	—	*	160
Ammonium Bicarbonate	20	150	160	Chlorine Water	Sat'd	75	180
	50	75	160	Chlorite	50	*	100
	100	75	160	Hydrosulfite	—	*	180
Ammonium Bisulfite				Sodium Hypochlorite ₆	15	N/R	125
Black Liquor	—	*	180	Borax	All	*	210
Ammonium Bromate	40	*	150	Boric Acid	All	*	210
Ammonium Bromide	40	*	150	Brake Fluid	—	*	110
Ammonium Carbonate	All	75	150	Brine	All	*	210
Ammonium Chloride	100	180	210	Bromine	Liquid	N/R	N/R
Ammonium Citrate	All	*	150	Bromine Water	5	*	180
Ammonium Fluoride	All	*	120	Brown Stock (Pulp Mill)	—	*	180
Ammonium Hydroxide	1	*	190	Bunker C Fuel Oil	100	*	210
(Aqueous Ammonia)	5	*	170	Butanol	All	*	120
Ammonium Lauryl Sulfate	10	N/R	150	Butyl Acetate	100	*	80
	20	N/R	150	Butyl Acrylate	100	*	80
	29	N/R	100	Butyl Amine	All	*	N/R
	30	*	120	Butyl Benzoate	100	*	100
Ammonium Nitrate	All	100	220	Butyl Benzyl Phthalate	100	*	180
Ammonium Persulfate	All	100	180	Butyl Carbitol	80	*	100

Chemical Environment	Concentration%	Recommend Max. Temp.		Chemical Environment	Concentration%	Recommend Max. Temp.	
		PolyDyn °F	PolyChampion °F			PolyDyn °F	PolyChampion °F
Butyl Cellosolve	100	*	100	Cobalt Naphthenate	All	*	150
Butyl Hypochlorite	98	N/R	N/R	Cobalt Octoate	All	*	150
Butylene Glycol	100	*	180	Cobalt Nitrate	15	*	120
Butylene Oxide	100	N/R	N/R	Coconut Oil	All	*	190
Butyraldehyde	100	*	100	Copper Chloride	All	*	220
Butyric Acid	25	150	*	Copper Cyanide	All	175	210
Butyric Acid	100	75	*	Copper Nitrate	All	175	210
C				Copper Sulfate	All	175	220
Cadmium Chloride	All	*	180	Corn Oil	All	*	200
Calcium Bisulfite	All	*	180	Corn Starch	All	*	210
Calcium Bromide	All	*	200	Corn Sugar	All	*	210
Calcium Carbonate	All	*	180	Cottonseed Oil	All	*	210
Calcium Chlorate	All	150	220	Cresol	10	*	N/R
Calcium Chloride	Sat'd	150	220	Cresylic Acid	All	*	N/R
Calcium Hydroxide	5	100	180	Crude Oil, Sour or Sweet	100	*	210
Calcium Hypochlorite	All	*	180	Cyclohexane	100	*	150
	10	75	180	Cyclohexanone	100	*	N/R
	All	*	180	D			
Calcium Nitrate	All	*	210	Decanol	100	*	180
Calcium Sulfate	All	150	220	Dechlorinated Brine Storage	All	*	180
Calcium Sulfite	All	*	180	Detergents, Organic	100	*	160
Camphor	100	75	*	Detergents, Sulfonated	All	*	200
Cane Sugar Liquor/ Sweet Water	All	*	180	Diallylphthalate	All	175	210
Capric Acid	All	*	110	Diammonium Phosphate	65	*	210
Caprylic Acid (Octanoic Acid)	All	*	190	Dibromophenol	—	*	N/R
Carbon Dioxide	100	150	*	Dibromopropanol	All	*	N/R
Carbon Dioxide Gas	—	*	300	Dibutyl Ether	100	*	150
Carbon Disulfide	100	N/R	N/R	Dibutyl Phthalate	100	175	200
Carbon Monoxide	All	175	*	Dibutyl Sebacate	All	*	200
Carbon Monoxide Gas	—	*	300	Dichlorobenzene	100	N/R	100
Carbon Tetrachloride	100	N/R	100	Dichloroethane	100	N/R	N/R
Carbowax®	100	*	120	Dichloroethylene	100	N/R	N/R
Carbowax® Polyethylene Glycols	All	*	150	Dichloromethane	100	N/R	N/R
Carboxy Ethyl Cellulose	10	*	150	Dichloropropane	100	*	N/R
Carboxy Methyl Cellulose	10	*	150	Dichloropropene	100	*	N/R
Castor Oil	All	*	160	Dichloropropionic Acid	100	*	N/R
Chlorinated Pulp	—	*	180	Diesel Fuel	100	*	200
Chlorinated Washer Hoods	—	*	180	Diethanol Amine	100	*	100
Chlorinated Waxes	All	*	180	Diethyl Amine	100	*	N/R
Chlorine (Liquid)	100	*	N/R	Diethyl Ether (Ethyl Ether)	100	N/R	N/R
Chlorine Gas (Wet or Dry)		*	210	Diethyl Formamide	100	*	N/R
Chlorine Dioxide6	Sat'd	*	160	Diethyl Ketone	100	*	N/R
Chlorine Water	All	75	180	Diethyl Maleate	100	*	N/R
Chloroacetic Acid	25	*	120	Diethylenetriamine (DETA)	100	*	N/R
Chlorobenzene	50	N/R	100	Diethylene Glycol	100	175	200
	100	N/R	80	Diisobutyl Ketone	100	*	110
Chloroform	100	N/R	N/R	Diisobutyl Phthalate	100	*	150
Chloropyridine	100	*	N/R	Diisobutylene	100	*	100
Chlorosulfonic Acid	All	*	N/R	Diisopropanol Amine	100	*	120
Chloroethylene				Dimethyl Formamide	100	N/R	N/R
(1,1,1-trichloroethylene)	All	N/R	N/R	Dimethyl Phthalate	100	*	150
Chlorotoluene	100	*	N/R	Diocetyl Phthalate	100	*	180
Chromic Acid	5	*	110	Dioxane	100	N/R	N/R
Chromium Sulfate	10	75	*	Diphenyl Ether	100	*	100
	20	N/R	N/R	Dipropylene Glycol	100	175	210
	All	150	150	Divinyl Benzene	100	*	120
Chromous Sulfate	All	*	150	E			
Citric Acid	All	150	220	Embalming Fluid	All	*	110
Cobalt Chloride	All	*	180	Epichloroeydrin	100	*	N/R
Cobalt Citrate	12	*	180	Epoxydized Soya Bean Oil	All	*	150

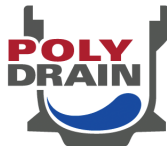
Chemical Environment	Concentration%	Recommend Max. Temp.		Chemical Environment	Concentration%	Recommend Max. Temp.	
		PolyDyn °F	PolyChampion °F			PolyDyn °F	PolyChampion °F
Esters of Fatty Acids	100	* I	80	Glycolic Acid (cont'd)	70	*	100
Ethanol Amine	100	*	80	Glyoxal	40	*	100
Ethyl Acetate	100	*	N/R	Green Liquor (Pulp Mill)	—	*	180
Ethyl Acrylate	100	N/R	N/R	H			
Ethyl Alcohol (Ethanol)	10	*	150	Heptane	100	*	210
	50	*	150	Hexachlorocyclopentadiene	100	*	110
	95-100	*	100	Hexane	100	*	150
Ethyl Benzene	100	*	100	Hydraulic Fluid	100	*	180
Ethyl Benzene/Benzene Blends	100	*	N/R	Hydrazine	100	N/R	N/R
Ethyl Bromide	100	N/R	N/R	Hydrobromic Acid	18	*	180
Ethyl Chloride	100	175	N/R	Hydrochloric Acid	48	N/R	150
Ethyl Ether (Diethyl Ether)	100	*	N/R		10	175	210
Ethylene Chloride	100	N/R	*		15	*	210
Ethylene Chloroformate	100	*	N/R		25	*	160
Ethylene Chlorohydrin	100	N/R	100		37	*	110
Ethylene Diamine	100	N/R	N/R				
Ethylene Diamine				Hydrocyanic Acid	10	*	180
Tetra Acetic Acid	100	*	100	Hydrofluoric Acid	1	*	125
Ethylene Dibromide	All	*	N/R	Hydrofluoric Acid	10	*	125
Ethylene Dichloride	100	N/R	N/R	Hydrofluoric Acid	20	*	100
Ethylene Glycol	All	175	200	Hydrofluosilicic Acid	10	*	150
Ethylene Glycol	35	*	100		35	*	100
Monobutyl Ether	100	*	100	Hydrogen Bromide, gas	100	*	180
Ethylene Oxide	100	*	N/R	Hydrogen Chloride, dry gas	100	*	210
Eucalyptus Oil	100	*	140	Hydrogen Fluoride, gas	All	*	150
F				Hydrogen Peroxide	5	*	150
Fatty Acids	All	N/R	220		30	N/R	100
Ferric Acetate	All	175	180	Hydrogen Sulfide, gas	All	75	210
Ferric Chloride	All	175	210	Hydroiodic Acid	10	*	150
Ferric Nitrate	All	175	210	Hypophosphorus Acid	50	*	120
Ferric Sulfate	All	175	210	I			
Ferrous Chloride	All	175	210	Iodine, Solid	All	*	150
Ferrous Nitrate	All	175	210	Isoamyl Alcohol	100	*	120
Ferrous Sulfate	All	175	210	Isobutyl Alcohol	All	*	120
Fertilizer, 8,8,8,	—	*	120	Isodecanol	All	*	180
Fertilizer, URAN	—	*	120	Isononyl Alcohol	100	*	140
Fluoboric Acid	10	*	220	Isooctyl Adipate	100	*	130
				Isooctyl Alcohol	100	*	140
Fluosilicic Acid	10	*	150	Isopropyl Alcohol	All	*	120
	35	N/R	100	Isopropyl Amine	100	*	120
	Fumes	*	180	Isopropyl Myristate	100	*	200
Formaldehyde	44	N/R	150	Isopropyl Palmitate	100	*	210
Formic Acid	10	*	180	Itaconic Acid	All	*	120
	50	N/R	100	J-K			
Freon® 11	100	*	100	Jet Fuel	100	175	180
Fuel Oil	100	*	180	Jjoba Oil	100	*	180
Furfural	10	*	100	Kerosene	100	175	180
Furfural	100	N/R	N/R	L			
G				Lactic Acid	All	Boil	210
Gallic Acid	Sat'd	*	100	Latex	All	*	150
Gasoline				Lauric Acid	All	*	210
Regular Leaded8	100	*	110	Lauryl Alcohol	100	*	180
Regular Unleaded8	100	*	100	Lauryl Mercaptan	All	*	150
Alcohol-Containing8	100	*	100	Lead Acetate	All	175	210
Gluconic Acid	50	*	180	Lead Chloride	All	175	220
Glucose	100	*	210	Lead Nitrate	All	175	220
Glutaric Acid	50	*	120	Levulinic Acid	All	*	220
Glycerine	100	175	210	Lime Slurry	All	175	170
Glycolic Acid	10	*	200	Linseed Oil	All	150	220
(Hydroxyacetic Acid)	35	*	140	Lithium Bromide	Sat'd	*	220

Chemical Environment	Concentration%	Recommend Max. Temp.		Chemical Environment	Concentration%	Recommend Max. Temp.	
		PolyDyn °F	PolyChampion °F			PolyDyn °F	PolyChampion °F
Lithium Carbonate	All	*	50	P			
Lithium Chloride	Sat'd	*	210	Palm Oil	100	*	210
Lithium Sulfate	All	*	210	Palmitic Acid	100	*	220
M				Pentasodium Tripoly Phosphate	10	*	200
Magnesium Bicarbonate	All	*	180	Perchloroethylene	100	N/R	110
Magnesium Bisulfite	All	*	180	Perchloric Acid	10	N/R	150
Magnesium Carbonate	15	175	180	Phenol (Carbolic Acid)	30	N/R	100
Magnesium Chloride	All	175	220		5	*	N/R
Magnesium Hydroxide	100	*	210	>5	*	N/R	
Magnesium Nitrate	All	175	210	Phenol Formaldehyde Resin	All	*	120
Magnesium Sulfate	All	175	210	Phosphoric Acid	80	*	210
Magnesium Silica Fluoride	37.5	*	140	Phosphoric Acid			
Maleic Acid	100	N/R	210	Vapor & Condensate	—	*	200
Maleic Anhydride	100	*	210	Phosphorous Trichloride	—	N/R	N/R
Manganese Chloride	All	*	210	Phthalic Acid	100	*	210
Manganese Sulfate	All	*	220	Phthalic Anhydride	100	*	210
Mercuric Chloride	All	175	210	Picric Acid (Alcoholic)	10	*	110
Mercurous Chloride	All	*	210	Pine Oil	100	*	*
Mercury	—	*	220	Pine Oil Disinfectant	All	*	*
Methyl Bromide (Gas)	10	*	80	Polyphosphoric Acid (115%)	—	*	210
Methyl Chloride	100	175	*	Polyvinyl Acetate Adhesive	All	*	120
Methyl Ethyl Ketone	20	*	N/R	Polyvinyl Acetate Emulsion	All	*	140
Methyl Isobutyl Ketone	100	*	N/R	Polyvinyl Alcohol	All	*	120
Methyl Methacrylate	All	*	N/R	Potassium Aluminum Sulfate	All	*	220
Methyl Styrene	100	*	N/R	Potassium Bicarbonate	10	*	150
Methylene Chloride	100	N/R	N/R	Potassium Carbonate	10	*	150
Mineral Oils	100	*	210		50	*	110
Molasses and Invert Molasses	All	*	110	Potassium Chloride	All	175	210
Molybdic Acid	25	*	150	Potassium Dichromate	All	175	210
Monochloroacetic Acid	80	N/R	N/R	Potassium Ferricyanide	All	*	210
Monochlorobenzene	100	*	N/R	Potassium Ferrocyanide	All	*	210
Monoethanolamine	100	*	80	Potassium Hydroxide	10	N/R	150
Monomethylhydrazine	100	N/R	N/R		25	N/R	110
Morpholine	100	*	N/R	Potassium Iodide	All	*	150
Motor Oil	100	*	210	Potassium Nitrate	All	175	210
Myristic Acid	All	*	210	Potassium Permanganate	All	*	210
N				Potassium Persulfate	All	175	210
Naphtha, Aliphatic	100	175	200	Potassium Pyrophosphate	60	*	150
Naphtha, Aromatic	100	*	120	Potassium Sulfate	All	175	210
Naphthalene	100	100	200	Propionic Acid	20	*	200
Nickel Chloride	All	175	210		50	*	180
Nickel Nitrate	All	175	210	Propylene Glycol	All	175	210
Nickel Sulfate	All	175	210	i-Propyl Palmitate	All	*	210
Nicotinic Acid (Niacin)	All	N/R	*	Pyridine	100	N/R	N/R
Nitric Acid	2	*	180	Q-R			
	5	N/R	160	Quaternary Ammonium Salts	All	*	*
	15	N/R	130	Rayon Spin Bath	—	*	140
	35	N/R	120	Refinery Crudes	All	175	*
	50	N/R	N/R	S			
	Fumes	*	*	Salicylic Acid	All	*	150
Nitrobenzene	100	*	N/R	Selenious Acid	All	*	210
Nitrogen Tetroxide	100	*	N/R	Silver Cyanide	All	*	200
O				Silver Nitrate	All	175	210
Octylamine, Tertiary	100	*	110	Sodium Acetate	All	175	210
Oil Sweet or Sour Crude	100	*	210	Sodium Alkyl Aryl Sulfonates	All	*	180
Oleic Acid	All	175	200	Sodium Aluminate	All	*	120
Oleum (Fuming Sulfuric Acid)	—	N/R	N/R	Sodium Benzoate	100	175	180
Olive Oil	100	*	210	Sodium Bicarbonate	All	*	180
Orange Oil (Limonene)	100	*	210	Sodium Bisulfate	All	175	210
Oxalic Acid	100	175	210	Sodium Bisulfite	Sat'd	*	210

Chemical Environment	Concentration%	Recommend Max. Temp.		Chemical Environment	Concentration%	Recommend Max. Temp.	
		PolyDyn °F	PolyChampion °F			PolyDyn °F	PolyChampion °F
Sodium Borate	Sat'd	*	210	Sulfuric Acid	70	*	180
Sodium Bromate	5	*	110		75	*	120
Sodium Bromide	All	175	210		93	N/R	N/R
Sodium Carbonate	10	*	180		Fumes	*	200
(Soda Ash)	35	*	160	Sulfuric Acid/Ferrous Sulfate	10/Sat'd	*	200
Sodium Chlorate	50	*	210	Sulfuric Acid/Phosphoric Acid	10:20	*	180
Sodium Chloride	All	175	210	Sulfuryl Chloride	100	*	N/R
Sodium Chlorite	10	*	160	Superphosphoric Acid (105% H3PO4)	100	*	210
	50	*	100				
Sodium Chromate	50	*	210	T			
Sodium Citrate	All	175	*	Tall Oil	All	*	150
Sodium Cyanide	5	*	210	Tannic Acid	All	175	210
Sodium Dichromate	100	*	210	Tartaric Acid	All	175	210
Sodium Diphosphate	100	*	210	Tetrachloroethane	100	*	N/R
Sodium Ferricyanide	All	*	210	Tetrachloropentane	100	*	N/R
Sodium Ferrocyanide	All	175	210	Tetrachloropyridine	—	*	N/R
Sodium Fluoride	All	*	180	Tetrapotassium Pyrophosphate	60	*	125
Sodium Fluorosilicate	All	*	120	Tetrasodium Pyrophosphate	5	*	125
Sodium Hexametaphosphate	10	*	150		60	*	125
Sodium Hydrosulfide	20	*	170	Thioglycolic Acid	10	*	100
Sodium Hydroxide	1	*	140	Thionyl Chloride	100	N/R	N/R
	5	*	140	Tobias Acid (2-Naphthylamine Sulfonic Acid)	—	*	210
	10	N/R	140	Toluene	100	170	100
	25	*	140		100	N/R	N/R
Sodium Hypochlorite ^{5,6}	15	*	125	Toluene Sulfonic Acid	All	*	210
	All	*	210	Transformer Oils	100	*	210
Sodium Nitrate	All	175	210	Tributyl Phosphate	100	*	120
Sodium Nitrite	All	175	210	Trichloroacetaldehyde	100	*	N/R
Sodium Oxalate	All	*	180	Trichloroacetic Acid	50	*	210
Sodium Polyacrylate	25	*	150	Trichloroethane	100	*	N/R
Sodium Silicate, pH<12	100	*	210	Trichlorophenol	100	*	N/R
Sodium Silicate, pH>12	100	*	210	Tridecylbenzene Sulfonate	All	*	210
Sodium Sulfate	All	175	210	Triethanolamine	100	*	120
Sodium Sulfide	All	*	210	Triethylamine	All	*	120
Sodium Sulfite	All	175	210	Triethylene Glycol	100	*	180
Sodium Thiocyanate	57	*	180	Trimethylamine Chlorobromide	—	N/R	N/R
Sodium Thiosulfate	All	*	180	Trisodium Phosphate	50	*	175
Sodium Triphosphate	All	*	210	U-V-W			
Sorbitol	All	*	180	Urea	All	*	150
Soybean Oil	All	*	210	Vegetable Oils	All	*	210
Stannic Chloride	All	*	210	Vinegar	All	*	210
Stannous Chloride	All	*	210	Vinyl Acetate	All	*	N/R
Stearic Acid	All	175	210	Vinyl Toluene	100	*	80
Styrene	100	*	N/R	Water, Deionized	All	*	210
Styrene Acrylic Emulsion	All	*	120	Water, Demineralized	—	*	200
Succinonitrile, Aqueous	All	*	100	Water, Distilled	All	*	210
Sucrose	All	*	210	Water, Sea	All	*	210
Sulfamic Acid	10	*	210	White Liquor (Pulp Mill)	All	*	180
	25	*	150	Wine ⁴	All	N/R	*
Sulfanilic Acid	All	*	210	X-Y-Z			
Sulfite/Sulfate Liquors (Pulp Mill)	—	*	200	Xylene	All	*	100
Sulfonyl Chloride, Aromatic	—	*	N/R	Zinc Chlorate	All	*	210
Sulfur Dichloride	—	N/R	*	Zinc Chloride	All	175	210
Sulfur Dioxide (Dry or Wet Gas)	—	*	220	Zinc Cyanide	All	*	160
Sulfur Trioxide Gas	—	*	210	Zinc Nitrate	All	175	210
Sulfuric Acid	25	*	210	Zinc Sulfate	All	175	210
	50	75	180	Zinc Sulfite	All	*	210

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