

# ALFA CHANNEL®



## CHEMICAL RESISTANCE GUIDE



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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.

Alfa Channel is designed to withstand hostile work environments and severe weather abuse.

### POLYDYN

Standard Alfa Channel is 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 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

Alfa Channel offers a variety of gratings that are manufactured to offer corrosion resistance. Fiberglass mesh grates formulated with vinyl ester resins offer corrosion resistance properties very similar to standard 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 Alfa Channel system. Chemicals, test concentrations and maximum recommended temperatures for both Standard Alfa Channel manufactured from PolyDyn and more chemical resistant 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, MultiDrain Systems, 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 MultiDrain’s resin suppliers and represents their experience, testing and analysis.

		Max. Recommended Temp.				Max. Recommended Temp.	
Chemical Environment	Concentration %	PolyDyn °F	Poly-Champion °F	Chemical Environment	Concentration %	PolyDyn °F	Poly-Champion °F
<b>A</b>							
Acetaldehyde	All	*	N/R	Ammonium Phosphate (Basic)	65	*	210
Acetic Acid	10	150	210	Ammonium Sulfate	All	75	210
	25	75	210	Ammonium Sulfide (Bisulfide)	All	*	220
	50	N/R	180	Ammonium Thiocyanate	20	*	210
Acetic Acid, Glacial	100	*	N/R	Ammonium Thiosulfate	50	*	110
Acetone	10	*	180	Amyl Acetate	60	*	100
	25	150	*	Amyl Chloride	All	N/R	100
	50	75	*	Aniline	100	N/R	N/R
	100	N/R	N/R	Aniline Hydrochloride	All	*	180
Acetonitrile	100	*	N/R	Aniline Sulfate, saturated	20	150	*
Acetophenone	100	*	N/R	Antimony Trichloride	All	75	210
Acetyl Chloride	100	*	N/R	Aqua Regia (3:1 HCl-HNO3)	All	*	*
Acrylic Acid, up to 25%	25	*	100	Arsenic Acid	All	*	N/R
Acrylic Latex	All	*	120	Arsenious Acid	80	*	100
Acrylonitrile	100	*	N/R	Arsenious Acid	20	150	180
Alcohol, Amyl	100	180	200	Arsenious Acid	100	150	*
Amyl, Alcohol	Vapor	*	150	<b>B</b>			
Alcohol, Ethyl	95	180	100	Barium Acetate	All	*	180
Alcohol, Methyl	100	140	80	Barium Bromide	All	*	180
Alkyl Benzene Sulfonic Acid	92	*	120	Barium Carbonate	All	175	220
Allyl Alcohol	100	*	N/R	Barium Chloride	All	75	210
Allyl Chloride	All	*	80	Barium Cyanide	All	*	150
Alpha Methyl Styrene	100	*	N/R	Barium Hydroxide	10	N/R	150
Alpha Olefin Sulfates	100	*	120	Barium Sulfate	All	*	220
Alum	All	180	220	Barium Sulfide	All	N/R	180
Aluminum Chloride	100	180	220	Beet Sugar Liquor	All	*	180
Aluminum Chlorohydrate	All	*	210	Benzaldehyde	100	N/R	N/R
Aluminum Chlorohydroxide	50	*	210	Benzene	100	75	100
Aluminum Citrate	All	*	200	Benzene, HCl (Wet)	All	*	N/R
Aluminum Fluoride3	All	*	80	Benzene Sulfonic Acid	30	*	210
Aluminum Hydroxide	All	N/R	200		100	75	*
Aluminum Nitrate	100	100	160	Benzene Vapor	All	*	N/R
Aluminum Potassium Sulfate	100	180	220	Benzoic Acid	All	150	210
Aluminum Sulfate	All	180	220	Benzoquinones	All	*	180
Amino Acids	All	*	100	Benzyl Alcohol	All	*	100
Ammonia, Liquified	All	*	N/R	Benzyl Chloride	100	*	80
Ammonia (Dry Gas)	All	*	100	Black Liquor (Pulp Mill)	All	*	180
Ammonium Acetate	65	*	80	Bleach Solutions 5,6			
Ammonium Benzoate	All	*	80	Calcium Hypochlorite	10	75	180
Ammonium Bicarbonate	20	150	160	Chlorine Dioxide6	—	*	160
	50	75	160	Chlorine Water	Sat'd	75	180
	100	75	160	Chlorite	50	*	100
Ammonium Bisulfite				Hydrosulfite	—	*	180
Black Liquor	—	*	180	Sodium Hypochlorite6	15	N/R	125
Ammonium Bromate	40	*	150	Borax	All	*	210
Ammonium Bromide	40	*	150	Boric Acid	All	*	210
Ammonium Carbonate	All	75	150	Brake Fluid	—	*	110
Ammonium Chloride	100	180	210	Brine	All	*	210
Ammonium Citrate	All	*	150	Bromine	Liquid	N/R	N/R
Ammonium Fluoride3	All	*	120	Bromine Water	5	*	180
Ammonium Hydroxide	1	*	190	Brown Stock (Pulp Mill)	—	*	180
(Aqueous Ammonia)	5	*	170	Bunker C Fuel Oil	100	*	210
	10	N/R	150	Butanol	All	*	120
	20	N/R	150	Butyl Acetate	100	*	80
	29	N/R	100	Butyl Acrylate	100	*	80
Ammonium Lauryl Sulfate	30	*	120	Butyl Amine	All	*	N/R
Ammonium Nitrate	All	100	220	Butyl Benzoate	100	*	100
Ammonium Persulfate	All	100	180	Butyl Benzyl Phthalate	100	*	180
				Butyl Carbitol	80	*	100

		Max. Recommended Temp.				Max. Recommended Temp.	
Chemical Environment	Concentration %	PolyDyn °F	Poly-Champion °F	Chemical Environment	Concentration %	PolyDyn °F	Poly-Champion °F
Esters of Fatty Acids	100	*	180	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		48	N/R	150
Ethyl Ether (Diethyl Ether)	100	*	N/R	Hydrochloric Acid3,6	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 Acid3	1	*	125
Ethylene Dibromide	All	*	N/R	Hydrofluoric Acid3	10	*	125
Ethylene Dichloride	100	N/R	N/R	Hydrofluoric Acid	20	*	100
Ethylene Glycol	All	175	200	Hydrofluosilicic Acid3	10	*	150
Ethylene Glycol					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, gas3	All	*	150
<b>F</b>				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	<b>I</b>			
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 Acid3	10	*	220	Isooctyl Adipate	100	*	130
				Isooctyl Alcohol	100	*	140
Fluosilicic Acid3	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	<b>J-K</b>			
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	<b>L</b>			
<b>G</b>				Lactic Acid	All	Boil	210
Gallic Acid	Sat'd	*	100	Latex	All	*	150
Gasoline6,8				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 Slurry3	All	175	170
Glycolic Acid	10	*	200	Linseed Oil	All	150	220
(Hydroxyacetic Acid)	35	*	140	Lithium Bromide	Sat'd	*	220

		Max. Recommended Temp.				Max. Recommended Temp.	
Chemical Environment	Concentration %	PolyDyn °F	Poly-Champion °F	Chemical Environment	Concentration %	PolyDyn °F	Poly-Champion °F
Esters of Fatty Acids	100	*	180	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		48	N/R	150
Ethyl Ether (Diethyl Ether)	100	*	N/R	Hydrochloric Acid3,6	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 Acid3	1	*	125
Ethylene Dibromide	All	*	N/R	Hydrofluoric Acid3	10	*	125
Ethylene Dichloride	100	N/R	N/R	Hydrofluoric Acid	20	*	100
Ethylene Glycol	All	175	200	Hydrofluosilicic Acid3	10	*	150
Ethylene Glycol					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, gas3	All	*	150
<b>F</b>				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	<b>I</b>			
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 Acid3	10	*	220	Isooctyl Adipate	100	*	130
				Isooctyl Alcohol	100	*	140
Fluosilicic Acid3	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	<b>J-K</b>			
Freon® 11	100	*	100	Jet Fuel	100	175	180
Fuel Oil	100	*	180	Jobba Oil	100	*	180
Furfural	10	*	100	Kerosene	100	175	180
Furfural	100	N/R	N/R	<b>L</b>			
<b>G</b>				Lactic Acid	All	Boil	210
Gallic Acid	Sat'd	*	100	Latex	All	*	150
Gasoline6,8				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 Slurry3	All	175	170
Glycolic Acid	10	*	200	Linseed Oil	All	150	220
(Hydroxyacetic Acid)	35	*	140	Lithium Bromide	Sat'd	*	220

		Max. Recommended Temp.				Max. Recommended Temp.	
Chemical Environment	Concentration %	PolyDyn °F	Poly-Champion °F	Chemical Environment	Concentration %	PolyDyn °F	Poly-Champion °F
Lithium Carbonate	All	*	150	<b>P</b>			
Lithium Chloride	Sat'd	*	210	Palm Oil	100	*	210
Lithium Sulfate	All	*	210	Palmitic Acid	100	*	220
<b>M</b>				Pentasodium Tripoly Phosphate	10	*	200
Magnesium Bicarbonate	All	*	180	Perchloroethylene	100	<b>N/R</b>	110
Magnesium Bisulfite	All	*	180	Perchloric Acid	10	<b>N/R</b>	150
Magnesium Carbonate	15	175	180		30	<b>N/R</b>	100
Magnesium Chloride	All	175	220	Phenol (Carbolic Acid)	5	*	<b>N/R</b>
Magnesium Hydroxide	100	*	210		>5	*	<b>N/R</b>
Magnesium Nitrate	All	175	210	Phenol Formaldehyde Resin	All	*	120
Magnesium Sulfate	All	175	210	Phosphoric Acid	80	*	210
Magnesium Silica Fluoride <sup>3</sup>	37.5	*	140	Phosphoric Acid			
Maleic Acid	100	<b>N/R</b>	210	Vapor & Condensate	—	*	200
Maleic Anhydride	100	*	210	Phosphorous Trichloride	—	<b>N/R</b>	<b>N/R</b>
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	*	<b>N/R</b>	Polyvinyl Acetate Emulsion	All	*	140
Methyl Isobutyl Ketone	100	*	<b>N/R</b>	Polyvinyl Alcohol	All	*	120
Methyl Methacrylate	All	*	<b>N/R</b>	Potassium Aluminum Sulfate	All	*	220
Methyl Styrene	100	*	<b>N/R</b>	Potassium Bicarbonate	10	*	150
Methylene Chloride	100	<b>N/R</b>	<b>N/R</b>	Potassium Carbonate	10	*	150
Mineral Oils	100	*	210		50	*	110
Molasses and Invert Molasses	All	*	110	Potassium Chloride	All	175	210
Molybdc Acid	25	*	150	Potassium Dichromate	All	175	210
Monochloroacetic Acid	80	<b>N/R</b>	<b>N/R</b>	Potassium Ferricyanide	All	*	210
Monochlorobenzene	100	*	<b>N/R</b>	Potassium Ferrocyanide	All	*	210
Monoethanolamine	100	*	80	Potassium Hydroxide <sup>5</sup>	10	<b>N/R</b>	150
Monomethylhydrazine	100	<b>N/R</b>	<b>N/R</b>		25	<b>N/R</b>	110
Morpholine	100	*	<b>N/R</b>	Potassium Iodide	All	*	150
Motor Oil	100	*	210	Potassium Nitrate	All	175	210
Myristic Acid	All	*	210	Potassium Permanganate	All	*	210
<b>N</b>				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	<b>N/R</b>	*	Pyridine	100	<b>N/R</b>	<b>N/R</b>
Nitric Acid <sup>6</sup>	2	*	180	<b>Q-R</b>			
	5	<b>N/R</b>	160	Quaternary Ammonium Salts	All	*	*
	15	<b>N/R</b>	130	Rayon Spin Bath	—	*	140
	35	<b>N/R</b>	120	Refinery Crudes	All	175	*
	50	<b>N/R</b>	<b>N/R</b>	<b>S</b>			
	Fumes	*	*	Salicylic Acid	All	*	150
Nitrobenzene	100	*	<b>N/R</b>	Selenious Acid	All	*	210
Nitrogen Tetroxide	100	*	<b>N/R</b>	Silver Cyanide	All	*	200
<b>O</b>				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)	—	<b>N/R</b>	<b>N/R</b>	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

		Max. Recommended Temp.				Max. Recommended Temp.	
Chemical Environment	Concentration %	PolyDyn $\varphi$ F	Poly-Champion $\varphi$ F	Chemical Environment	Concentration %	PolyDyn $\varphi$ F	Poly-Champion $\varphi$ F
Sodium Borate	Sat'd	*	210	Sulfuric Acid <sup>6</sup>	70	*	180
Sodium Bromate	5	*	110		75	*	120
Sodium Bromide	All	175	210		93	N/R	N/R
Sodium Carbonate (Soda Ash)	10	*	180		Fumes	*	200
Sodium Chlorate	35	*	160	Sulfuric Acid/Ferrous Sulfate	10/Sat'd	*	200
Sodium Chloride	50	*	210	Sulfuric Acid/Phosphoric Acid	10:20	*	180
Sodium Chlorite	All	175	210	Sulfuryl Chloride	100	*	N/R
Sodium Chlorite	10	*	160	Superphosphoric Acid (105% H <sub>3</sub> PO <sub>4</sub> )			
Sodium Chromate	50	*	100		100	*	210
Sodium Citrate	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	100	*	210	Tetrachloropentane	100	*	N/R
Sodium Ferrocyanide	All	*	210	Tetrachloropyridine	—	*	N/R
Sodium Fluoride <sup>3</sup>	All	175	210	Tetrapotassium Pyrophosphate	60	*	125
Sodium Fluorosilicate <sup>3</sup>	All	*	180	Tetrasodium Pyrophosphate	5	*	125
Sodium Hexametaphosphate	All	*	120		60	*	125
Sodium Hydrosulfide	10	*	150	Thioglycolic Acid	60	*	125
Sodium Hydroxide <sup>6</sup>	20	*	170	Thionyl Chloride	10	*	100
	1	*	140	Tobias Acid (2-Naphthyl-amine Sulfonic Acid)	100	N/R	N/R
	5	*	140				
	10	N/R	140	Toluene	—	*	210
	25	*	140		100	170	100
Sodium Hypochlorite <sup>5,6</sup>	15	*	125	Toluene Sulfonic Acid	100	N/R	N/R
]	All	*	210	Transformer Oils	All	*	210
Sodium Nitrate	All	175	210	Tributyl Phosphate	100	*	210
Sodium Nitrite	All	175	210	Trichloroacetaldehyde	100	*	120
Sodium Oxalate	All	*	180	Trichloroacetic Acid	100	*	N/R
Sodium Polyacrylate	25	*	150	Trichloroethane	50	*	210
Sodium Silicate, pH<12	100	*	210	Trichlorophenol	100	*	N/R
Sodium Silicate, pH>12	100	*	210	Tridecylbenzene Sulfonate	100	*	N/R
Sodium Sulfate	All	175	210	Triethanolamine	All	*	210
Sodium Sulfide	All	*	210	Triethylamine	100	*	120
Sodium Sulfite	All	175	210	Triethylene Glycol	All	*	120
Sodium Thiocyanate	57	*	180	Trimethylamine Chlorobromide	100	*	180
Sodium Thiosulfate	All	*	180	Trisodium Phosphate	—	N/R	N/R
Sodium Triphosphate	All	*	210		50	*	175
Sorbitol	All	*	180	<b>U-V-W</b>			
Soybean Oil	All	*	210	Urea	All	*	150
Stannic Chloride	All	*	210	Vegetable Oils	All	*	210
Stannous Chloride	All	*	210	Vinegar	All	*	210
Stearic Acid	All	175	210	Vinyl Acetate	All	*	N/R
Styrene	All	*	210	Vinyl Toluene	All	*	80
Styrene Acrylic Emulsion	100	*	N/R	Water, Deionized <sup>5,6</sup>	100	*	210
Succinonitrile, Aqueous	All	*	120	Water, Demineralized <sup>5,6</sup>	All	*	210
Sucrose	All	*	100	Water, Distilled <sup>5,6</sup>	—	*	200
Sulfamic Acid	All	*	210	Water, Sea	All	*	210
	10	*	210	White Liquor (Pulp Mill)	All	*	210
	25	*	150	Wine <sup>4</sup>	All	*	180
Sulfanilic Acid	All	*	210	<b>X-Y-Z</b>			
Sulfite/Sulfate Liquors (Pulp Mill)	—	*	200	Xylene	All	N/R	*
Sulfonyl Chloride, Aromatic	—	*	210	Zinc Chlorate	All	*	100
Sulfur Dichloride	—	N/R	*	Zinc Chloride	All	*	210
Sulfur Dioxide (Dry or Wet Gas) <sup>6</sup>	—	*	220	Zinc Cyanide	All	175	210
Sulfur Trioxide Gas <sup>6</sup>	—	*	210	Zinc Nitrate	All	*	160
Sulfuric Acid <sup>6</sup>	25	*	210	Zinc Sulfate	All	175	210
	50	75	180	Zinc Sulfite	All	*	210

## Typical Physical Properties of Alfa Channel

Property	Test Method	Value
Minimum Compressive Strength	ASTM C579	117,2 MPa (17,000 psi )
Minimum Bending Strength	ASTM C580	27,6 MPa (4,000 psi )
Minimum Tensile Strength	ASTM C307	13,8 MPa (2,000 psi )
Maximum Moisture Absorption	ASTM A140	0.2% [PCC 5% ]
Freeze Thaw Cycles (1,600 cycles)	ASTM C666	No Weight Loss
Fungi Growth Resistance	ASTM G21	Zero (0) Mold Growth
Flame Spread - UL / ULC	UL 723	Class A - Flame 5; Smoke 95
Chemical Resistance	ASTM C267	Pass - Automotive Fluids

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