

The information provided in the Chemical Resistance guide which follows below is a reference guide only.

Whilst every care has been taken in the preparation hereof, it does not substitute for the proper evaluation of the application by a qualified engineer and does not constitute any form of contractual representation

PVC Polyvinyl Chloride  
 PE Polyethylene  
 PP Polypropylene  
 CT Clear Teflon  
 ST Standard Teflon  
 PT Premium Teflon  
 316 316 Stainless Steel  
 NR Not recommended  
 no data

Chemical Resistance Guide							
Maximum Temperature (°F) Drake Specialties Safety Shields							
Corrosive	PVC	PE	PP	CT (VUE)	ST (TFE)	PT	316
Acetaldehyde	NR	NR	75	no data	450	450	no data
Acetic Acid (10%)	140	140	200	212	450	450	500+
Acetic Acid (50%)	140	140	200	212	450	450	500+
Acetic Acid (80%)	73	70	125	300	450	450	500+
Acetic Acid (glacial)	NR	70	125	212	450	450	500+
Acetone (10-100%)	NR	NR	125	121	450	450	500+
Acetophenone	NR	NR	75	121	450	450	500+
Acetyl Chloride	NR	no data	NR	121	450	450	500+
Acetylene Tetrabromide	NR	no data	NR	no data	450	450	500+
Acetylene Tetrachloride	NR	no data	NR	no data	450	450	500+
Aluminium Chloride	140	140	225	300	450	450	no data
Aluminium Hydroxide	140	no data	200	300	450	450	500+
Aluminium Nitrate	140	no data	200	300	450	450	500+
Aluminum Oxychloride	140	no data	125	300	450	450	no data
Aluminum Sulfate	140	140	225	300	450	450	500+
Amonia (liquid)	NR	70	225	no data	450	450	500+
Ammonium Bromide (50%)	NR	NR	no data	no data	450	450	500+
Ammonium Carbonate (saturated)	140	140	225	300	450	450	500+
Ammonium Chloride	140	140	225	300	450	450	500+
Ammonium Dichromate	NR	no data	125	250	450	450	no data
Ammonium Fluoride (25%)	140	140	200	300	450	450	no data
Ammonium Fluoride (saturated)	no data	no data	175	no data	450	450	no data
Ammonium Hydroxide (10%)	140	140	225	300	450	450	500+
Ammonium Hydroxide (concentrate)	NR	140	225	no data	450	450	500+
Ammonium Nitrate	140	140	150	300	450	450	500+
Ammonium Phosphate	140	no data	225	300	450	450	500+
Ammonium Sulfate	140	140	225	300	450	450	500+
Amyl Alcohol	104	140	75	300	450	450	no data
Aniline	NR	NR	125	212	450	450	no data
Aqua Regia	70	NR	75	212	450	450	no data

	PVC	PE	PP	(VUE)	(TFE)	PT	316
Arsenic Acid	140	140	200	300	450	450	500+
Barium Carbonate	140	140	200	300	450	450	500+
Barium Chloride	140	140	200	300	450	450	no data
Barium Hydroxide	140	140	200	300	450	450	no data
Barium Sulfate	140	140	200	300	450	450	no data
Barium Sulfide	70	140	200	300	450	450	no data
Benzaldehyde	NR	NR	75	121	450	450	500+
Benzenesulfonic Acid	140	140	75	121	450	450	500+
Benzoic Acid	140	140	150	250	450	450	500+
Benzylamine	no data	no data	150	no data	450	450	no data
Benzyl Chloride	no data	no data	75	no data	450	450	no data
Bismuth Carbonate]	140	140	225	300	450	450	no data
Black Liquor	140	no data	no data	300	450	450	500+
Boric Acid	140	140	225	300	450	450	500+
Bromine (liquid)	NR	NR	NR	121	450	450	NR
Bromine Chloride	NR	no data	no data	no data	250	250	no data
Butyl Acetate	NR	68	NR	73	450	450	500+
Butyl Alcohol (butanol)	140	140	200	300	450	450	no data
Butyl Bromide	NR	NR	NR	no data	450	450	no data
Butyl Chloride	NR	NR	NR	no data	450	450	no data
Butyric Acid	73	NR	175	250	450	450	500+
Calcium Bisulfide	140	140	200	300	450	450	500+
Calcium Bisulfite	140	no data	200	300	450	450	500+
Calcium Carbonate	140	140	225	300	450	450	500+
Calcium Chlorate	140	140	200	300	450	450	500+
Calcium Chloride (saturated)	140	140	225	300	450	450	500+
Calcium Chlorite	140	140	150	no data	450	450	500+
Calcium Hydroxide (saturated)	140	140	225	300	450	450	500+
Calcium Hypochlorite	140	140	175	300	450	450	500+
Calcium Nitrate	140	140	200	300	450	450	no data
Calcium Oxide	140	140	225	300	450	450	no data
Calcium Sulfate	140	140	225	300	450	450	500+
Carbon Tetrachloride	NR	NR	NR	300	450	450	500+
Chlorine Dioxide	NR	NR	NR	212	450	450	NR
Chromic Acid (50%)	72	73	125	212	450	450	500+
Chromic Acid (100%)	NR	NR	NR	no data	450	450	500+
Chromium Trioxide (30%)	140	no data	125	no data	450	450	500+
Copper Carbonate (basic)	140	140	200	300	450	450	500+
Copper Chloride (saturated)	140	140	200	300	450	450	NR
Copper Cyanide (10%)	140	140	200	300	450	450	500+
Copper Fluoride	140	140	200	300	450	450	500+
Copper Nitrate	140	140	200	300	450	450	500+
Copper Sulfate (saturated)	140	140	200	300	450	450	500+
Cresol	72	NR	NR	212	450	450	500+
Cresylic Acid (50%)	140	no data	NR	121	450	450	500+
Cyclohexanone	NR	68	NR	121	450	450	500+
Diethylamine	NR	NR	75	no data	450	450	no data
Diethyl Ether	NR	no data	NR	73	450	450	no data
Diisobutyl Ketone	NR	NR	75	121	450	450	500+
Disodium Phosphate	140	140	200	300	450	450	500+
Ethyl Acetate	NR	73	125	121	450	450	500+

	PVC	PE	PP	(VUE)	(TFE)	PT	316
Ethyl Alcohol (ethanol)	140	140	175	300	450	450	500+
Ethyl Chloride	NR	NR	NR	300	450	450	500+
Ethylene Dibromide	NR	NR	75	no data	450	450	500+
Ethylene Dichloride	NR	NR	75	73	450	450	500+
Ethylene Glycol	140	140	125	300	450	450	500+
Ferric Chloride	140	140	200	300	450	450	NR
Ferric Nitrate	140	140	200	300	450	450	500+
Ferric Sulfate	140	no data	200	300	450	450	500+
Ferrous Chloride	140	140	200	300	450	450	NR
Ferrous Nitrate	140	140	200	300	450	450	no data
Fluosilicic Acid	140	70	150	300	450	450	no data
Formealdehyde (50%)	140	140	175	no data	450	450	500+
Formic Acid	70	140	125	250	450	450	500+
Gasoline (petroleum)	no data	NR	NR	300	450	450	500+
Glucose	140	140	225	300	450	450	500+
Hydrobromic Acid (10%)	140	140	225	300	450	450	no data
Hydrobromic Acid (50%)	140	140	175	300	450	450	NR
Hydrochloric Acid (10-20%)	140	140	200	300	450	450	500+
Hydrochloric Acid (35%)	140	140	200	300	450	450	500+
Hydrofluoric Acid (30%)	68	68	200	NR	NR	NR	500+
Hydrofluoric Acid (50-60%)	68	68	200	NR	NR	NR	500+
Hydrofluoric Acid (100%)	NR	NR	no data	NR	NR	NR	500+
Hydrogen Peroxide (80-90%)	68		125	121	450	450	500+
Hydrogen Sulfide (aqueous)	140	140	175	121	450	450	500+
Lactic Acid (80%)	68	140	150	121	450	450	500+
Lauryl Chloride	72	no data	175	212	450	450	no data
Magnesium Carbonate	140	140	225	300	450	450	500+
Magnesium Chloride	140	140	225	300	450	450	500+
Magnesium Hydroxide	140	140	225	300	450	450	500+
Magnesium Nitrate	140	140	225	300	450	450	500+
Magnesium Sulfate (10%)	140	140	225	300	450	450	500+
Magnesium Sulfate (saturated)	no data	no data	225	300	450	450	500+
Magnesium Sulfate (10%-saturated)	140	140	75	no data	450	450	500+
Mercuric Chloride	140	140	175	250	450	450	500+
Mercuric Nitrate	140	140	175	no data	450	450	500+
Mercury	140	140	150	300	450	450	500+
Methyl Alcohol (methanol)	140	140	200	300	450	450	500+
Methyl Bromide	NR	NR	NR	300	450	450	500+
Methyl Chloride	NR	NR	NR	300	450	450	500+
Methyl Ethyl Ketone	NR	NR	125	121	450	450	500+
Methyl Salicylate	NR	68	125	no data	450	450	500+
Naphtha	140	NR	125	no data	450	450	500+
Nickel Chloride	140	140	200	300	450	450	500+
Nitric Acid (10%)	140	140	175	150	450	450	500+
Nitric Acid (30%)	140	140	150	212	450	450	500+
Nitric Acid (50%)	140	70	75	121	450	450	500+
Nitric Acid (70%)	73	NR	NR	121	450	450	500+
Nitric Acid (fuming)	NR	NR	NR	no data	450	450	500+
Oleum	NR	NR	NR	73	450	450	500+
Perchloric Acid (10%)	104	140	150	212	450	450	500+
Perchloric Acid (70%)	NR	68	75	121	450	450	500+

	PVC	PE	PP	(VUE)	(TFE)	PT	316
Phenol (5%)	72	70	200	121	450	450	500+
Phenol (100%)	no data	no data	150	121	450	450	500+
Phosgene (wet)	NR	no data	NR	no data	450	450	no data
Phosphoric Acid (10-50%)	140	140	225	300	450	450	500+
Phosphoric Acid (50-85%)	140	140	225	300	450	450	500+
Phthalic Acid	68	140	75	no data	450	450	500+
Potassium Aluminum Chloride	140	no data	225	no data	450	450	no data
Potassium Aluminum Sulfate (50%)	140	no data	225	300	450	450	no data
Potassium Bicarbonate	140	140	225	no data	450	450	500+
Potassium Borate	140	140	200	250	450	450	no data
Potassium Bromate	140	140	225	no data	450	450	no data
Potassium Bromide	140	140	225	300	450	450	500+
Potassium Carbonate	140	140	225	300	450	450	500+
Potassium Chlorate	140	140	225	300	450	450	500+
Potassium Chloride	140	140	200	300	450	450	500+
Potassium Chromate	140	140	225	300	450	450	no data
Potassium Cyanide	140	140	225	300	450	450	no data
Potassium Fluoride	140	140	175	no data	450	450	500+
Potassium Hydroxide (10%)	140	140	225	300	450	450	500+
Potassium Hydroxide (50%)	140	140	175	300	450	450	500+
Potassium Hydroxide (60-90%)	no data	no data	150	no data	450	450	500+
Potassium Hypochlorite	140	no data	175	no data	450	450	no data
Potassium Nitrate	140	140	175	300	450	450	500+
Potassium Sulfate	140	140	225	300	450	450	500+
Potassium Sulfide	104	140	175	no data	450	450	500+
Propylene Dibromide	no data	no data	75	no data	450	450	no data
Propylene Dichloride	NR	NR	75	no data	450	450	500+
Sodium Bromide	140	140	225	300	450	450	500+
Sodium Chlorate	140	140	200	300	450	450	500+
Sodium Chloride	140	140	225	300	450	450	500+
Sodium Chlorite	140	68	175	250	450	450	500+
Sodium Fluoride (saturated)	140	140	175	300	450	450	500+
Sodium Hydroxide (<10%)	140	140	200	300	450	450	500+
Sodium Hydroxide (10-50%)	140	140	200	250	450	450	500+
Sodium Hydroxide (>50%)	140	140	150	no data	450	450	no data
Sodium Hypochlorite	140	140	150	250	450	450	500+
Sodium Iodide	104	68	175	300	450	450	no data
Sodium Nitrate	140	140	175	300	450	450	500+
Sodium Nitrite	140	68	175	300	450	450	500+
Sodium Peroxide	140	no data	125	300	450	450	500+
Sodium Phosphate	140	140	175	300	450	450	500+
Sodium Silicate	140	140	225	300	450	450	500+
Sodium Sulfate	140	140	225	300	450	450	500+
Sodium Sulfide	104	140	150	300	450	450	500+
Sodium Sulfite	104	140	150	300	450	450	500+
Stannic Chloride	140	140	225	300	450	450	NR
Sulfur Chloride	140	no data	75	73	450	450	NR
Sulfuric Acid (10%)	140	140	225	212	450	450	500+
Sulfuric Acid (16%)	140	140	200	212	450	450	500+
Sulfuric Acid (30%)	140	140	200	212	450	450	500+
Sulfuric Acid (60%)	140	70	200	250	450	450	500+

	PVC	PE	PP	(VUE)	(TFE)	PT	316
Sulfuric Acid (85%)	NR	NR	175	250	450	450	500+
Sulfuric Acid (93-98%)	NR	NR	73	250	450	450	500+
Sulfuric Acid fuming (>98%)	NR	NR	NR	no data	450	450	500+
Tannic Acid	140	140	150	300	450	450	500+
Titanium Tetrachloride	NR	NR	NR	no data	450	450	500+
Toluene	NR	NR	NR	73	450	450	500+
Trichloroacetic (10%)	72	no data	150	121	450	450	no data
Trichloroacetic (100%)	68	no data	125	121	450	450	NR
Urea	140	140	225	212	450	450	500+
Zinc Chloride	140	140	175	300	450	450	500+
Zinc Nitrate	140	no data	200	300	450	450	500+
Zinc Sulfate	140	140	200	300	450	450	500+

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