

NDS Chemical Resistance Guide											
Chemicals	%	NDS Plastic Materials @ max.Temp or Rating				Metals Rating			Flo Control Gaskets @ max.Temp or Rating		
		ABS	Polyolefin	Polystyrene	PVC	Brass	Cast Iron	Ductile Iron	EPDM	Buna- n	Viton
Acetic Acid	25		180	A	73	C	C	C	180	C	C
Acetic Acid	50		140	A	73	C	C	C	140	C	C
Acetic Acid	80		100	B	73	C	C	C	100	C	C
Acetone			73	C	C	A	A	A	130	C	C
Aluminum Chloride	Sat		180	A	140	C	C	C	210	70	150
Aluminum Fluoride	Sat			B	73	C	C	C	210	180	
Aluminum Sulfate	Sat		180	B	140	C	C	C	210	200	150
Ammonium Acetate	Sat		73	B	140	C			140		
Ammonium Chloride	Sat		180	A	140	C	C	C	210	180	A
Ammonium Hydroxide	10		180	B	225	C			210	70	A
Ammonium Sulfate			180	A	140	C	B	B	210	180	A
Amyl Alcohol			180	A	100	A	B	B	210	140	A
Barium Chloride	Sat		180	A	180	A	B	B	250	180	A
Barium Hydroxide	Sat		180		140	A	B	B	250	180	A
Benzene			C	C	C	A	A	A	C	C	A
Benzoic Acid	All		140	A	140	C	C	C	C	C	
Borax	Sat		180	A	140	A	A	A	210	140	A
Boric Aid	Sat		180	A	140	B	B	C	210	140	A
Calcium Chloride		100	180	A	140	B	A	A	210	100	A
Calcium Hydroxide			180		140	C	C	C	210	140	A
Carbon Tetrachloride			C		73	A	C	C	C	C	A
Chlorine Gas (Dry)ppm	<150		C	B	120	C	B	A	C	C	B
Chlorine Gas (Wet) ppm	>150	C	C	B	120	C	C	C	C	C	B
Chlorinated Water ppm	<3500			B	140	C			B	C	B
Chlorinated Water ppm	>3500		C	B	C	C			C	C	B
Chromic Acid	10	C	150	B	140	C	C	C	70	C	B
Chromic Acid	30	C	150	B	140	C	C	C	C	C	
Chromic Acid	40	C	150	B	140	C	C	C	C	C	
Chromic Acid	50	C	C	B	75	C	C	C	C	C	
Citric Acid	Sat		180	A	140	C	C	C	210	70	A
Copper Chloride	Sat				140	C	C	C	210	180	150
Copper Cyanide					140	C	C	C	210	180	
Copper Nitrate	30				140	C	C	C	210	B to 70	
Copper Sulfate	Sat		120	A	140	C	C	C	210	180	150



Nitrous Acid	10				73	C	C	C		C	
Oxalic Acid	50		180	A	140		C	C	150	C	A
Phosphoric Acid	10		180	A	140	C	C	C	140	70	A
Phosphoric Acid	50		180	A	140	C	C	C	70	C	A
Phosphoric Acid	85		180	A	140	C	C	C	70	C	
Phosphorus Trichloride					C					C	
Picric Acid	10	C	170		170	C	C	C	140	C	
Potassium Bicarbonate	Sat		170		140				170	70	
Potassium Bromide			180	A	140		C	C	170	180	
Potassium Carbonate		70	140	A	280	B	A	A	170	180	
Potassium Chlorate			180	A	140		A	A	140	B to 70	
Potassium Chloride			180	A	140	A	B	B	210	180	A
Potassium Cyanide					140	C	B	B	140	180	A
Potassium Dichromate	Sat			B	140		B	B	170	180	
Potassium Ferricyanide					140		B	B	140	70	
Potassium Hypochlorite		C	C		140				C	C to 70	
Potassium Iodide			73						140	100	
Potassium Nitrate				A	140	B	B	B	210	180	
Potassium Sulfate			180	A	140	B	A	A	210	140	A
Silver Cyanide					140	C	C	C	140	C	
Sodium Acetate	Sat		180	A	140		B	B	170	C	
Sodium Bicarbonate		70	180		140	B	A	A	250	180	A
Sodium Borate	Sat		73	A			B	B	140	70	
Sodium Bromide	Sat		180	A	140		C	C	210	70	
Sodium Chloride			180	A	140	A	B	B	140	140	A
Sodium Flouride			185	A	140		C	C	140	70	
Sodium Hydroxide	<10	140	180	A	140				180	140	A
Sodium Hydroxide	30	70	180	A	140				140	100	B
Sodium Hydroxide	50	70	180	A	140				140	C	B
Sodium Hydroxide	70	C	180	A	140				70	C	B
Sodium Nitrate	Sat		180	B	140	B	A	A	210	140	A
Sodium Peroxide					140	C	C	C	140	B to 70	A
Sour Crude Oil					140		A	A	C	C	
Stannic Chloride					140	C	C	C	100	140	A
Stannous Chloride	15				140	C	C	C	70	140	A
Stearic Acid			73	A	140				C	140	A
Succinic Acid			150		140		A	A	70	70	

Sugar					140			B	100	140	
Sulfur			C	A	140	C	B	B		C	B
Sulfur Chloride			C			C	C	C	C	70	A
Sulfuric Acid	to 30	100	180	A	140	C	C	C	140	C	A
Sulfuric Acid	50	70	150	A	140	C	C	C	70	140	A
Sulfuric Acid	60	C	150	A	140	C	C	C	C	C	A
Sulfuric Acid	70	C	120	A	140	C	C	C	C	C	A
Sulfuric Acid	80	C	73	A	140	C	C	C	C	C	A
Sulfuric Acid	90	C	C	B	100	C	C	C	C	C	A
Sulfuric Acid	93	C	C	B	100	C	C	C	C	C	A
Sulfuric Acid	94	C	C	B	100	C	C	C	C	C	A
Sulfuric Acid	95	C	C	B	100	C	C	C	C	C	A
Sulfuric Acid	96	C	C	B	100	C	C	C	C	C	
Sulfuric Acid	98	C	C	B	C	C	C	C	C	C	
Sulfuric Acid	fuming	C	C	B	C	C	C	C	C	C	A
Sulfurous Acid	Sat	C	140		140	C	C	C	75		A
Tannic Acid	10	C	180	A	140	B	B	C	70	100	A
Tartaric Acid				A	150	C	C	C	C	70	A
Titanium Tetrachloride					C				C		
Trichloroacetic Acid			150		140		C	C	70	B to 70	
Turpentine			C	C	140	A	A	A	C	70	A
Vinegar		73	180	A	140	C	C	C	180	C	
Xylene		C	C	C	C	A	A	A	C	C	A
Zinc Chloride			180	A	140		C	C	180	70	A
Zinc Sulfate			180	A	140		C	C	180	140	A

**Legend as follows:**

Temperatures in F. = Max. Temp that is recommended

A = Suitable for use

B to Temp. = Suggest manufacturer be contacted

C = Strongly affected, not Recommended

Blank = No information is available

Further Chemical Compatibility results can be looked up by NDS Technical Service by request. (800)726-1994

This Guideline made by NDS inc. is only meant to be used as a reference and in no way will carry any warranty.

NDS suggests that the manufacturer or supplier of these chemicals be contacted and suggested handling instructions be followed for all materials to be used.