

Chemical Listings



CORROSION
RESISTANT RESINS

CONCENTRATIONS AND RECOMMENDED MAXIMUM CONTINUOUS EXPOSURE TEMPERATURE - DEGREES F

CHEMICAL	CONC.%	NOTES	F010	F007	F080	F083	F085	F282	K190	F701	F737	Hood & Duct K733
			F013 K022	F015		K023	F086 K095			F707 F764 F774		
			TEMPERATURE									
PHENOL	>5		NR				120	NR		NR	NR	
PHENOLFORMALDEHYDE RESIN	100		100	120			120	100				
PHENOLSULPHONIC ACID	ALL		80	80			80	80				
PHOSPHORIC ACID	ALL		210	210	210	210	210	210	210	100	NR	
PHOSPHORIC ACID (P2O5, HCL, H2S, SO2)	FUMES	10					210		210			
PHOSPHORIC ACID, (POLYMERIC 115% PHOSPHOROIC ACID)			200				210	210			NR	
PHOSPHORIC ACID, (SUPER 105% PHOSPHORIC ACID)			210	210			210	210		90	NR	
PHOSPHOROUS ACID	70		180	180			180	180				
PHOSPHOROUS TRICHLORIDE	100		NR	NR	NR	NR	NR	NR	NR			NR
PHOSSY WATER							NR	NR		NR	NR	
PTHALATES/PTHALATE ESTERS	100		140	140			140	140	140		NR	
PTHALIC ACID	100	13	210	210	210	210	210	210				
PTHALIC ANHYDRIDE	100		210	210	220		210	210	100	150	80	150
PICRIC ACID	10	13	80	80	80	80	150	120	100	NR	NR	100
PINE OIL	100		180	190			200	200				
PINE OIL DISINFECTANT	100		120	110			120	120				
PIPERAZINE DIHYDROCHLORIDE	ALL						120	120				
PLATING SOLUTION, CADMIUM (3.2% Cadmium oxide + 10% Sodium cyanide + 1.2% Sodium hydroxide)	14.4		140	140			140	140				
PLATING SOLUTION, CHROME (18.5% Chromic acid + 0.6% Sodium fluorosilicate + 0.01% Sodium sulphate)	19.11	2	120	80	100	100	120	NR	120			
PLATING SOLUTION, COPPER			120	120	120	120	180	180	180			
PLATING SOLUTION, GOLD (22.8% Potassium ferrocyanide + 0.2% Potassium gold cyanide + 0.8% Sodium cyanide)	23.8		180	180	200	200	210	210	200			
PLATING SOLUTION, LEAD (8% Lead + 0.8% Fluoboric acid + 0.4% Boric acid)	9.2	2	180	150	180		210	210	NR			
PLATING SOLUTION, NICKEL 1. (11.3% Nickel sulphate + 1.4% Nickel chloride + 1.1% Boric acid) 2. (43.7% Nickel sulphate + 3.5% Ammonium chloride + 3.5% Boric acid)	13.8 50.7		200	180	200	200	210	210				
PLATING SOLUTION, PLATINUM			180	180			210	180				
PLATING SOLUTION, SIVER		2	200	180	200	180	210	210	NR			

Notes

- Synthetic veil recommended
 - Double synthetic veil recommended
 - Double C-glass veil recommended
 - Double C-glass veil recommended. The thickness of the chemical resistance barrier (veil plus chopped glass fibers) should be ≈0.200 inches thick
 - Carbon Veil is recommended for improved service life.
 - Acid resistant (ECR) glass recommended in chopped glass layer behind the veil layer(s)
 - BPO/DMA or BPO/DEA curing system is recommended for improved service life.
 - Post cure recommended for improved service life.
 - Satisfactory up to maximum stable temperature of component.
 - Contact Corrosion Product Leader (see page 3)
 - Vipel® F764 or Vipel® F774 are recommended as the preferred products over Vipel® F701.
 - Only F010, F007, F015, F701, F764, F774 and F737 are suitable for FDA/USDA applications.
 - NR Not recommended.
- 'ALL'** in concentration column refers to concentrations in water.
'100' in concentration column refers to the pure chemical.

Fahrenheit to Centigrade Conversions

300°F= 149°C	230°F= 110°C	160°F= 71°C	100°F= 38°C
290°F= 143°C	220°F= 104°C	150°F= 66°C	90°F= 32°C
280°F= 138°C	210°F= 99°C	140°F= 60°C	80°F= 27°C
270°F= 132°C	200°F= 93°C	130°F= 54°C	77°F= 25°C
260°F= 127°C	190°F= 88°C	120°F= 49°C	70°F= 21°C
250°F= 121°C	180°F= 82°C	110°F= 44°C	60°F= 16°C
240°F= 116°C	170°F= 77°C		

Room temperature is assumed to be 77°F