

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	F707	Hood & Duct K733
			F013	F015		K022	K023		F086	K095	F764	
			TEMPERATURE									
AMMONIUM MOLYBDATE	ALL		150	120	110	110	120	150	NR			NR
AMMONIUM NITRATE	ALL		200	150	210	210	210	210	200	160	140	160
AMMONIUM OXALATE	ALL		150	150	110		100	120	NR			
AMMONIUM PENTABORATE	ALL		120	120	110		100	100	NR			
AMMONIUM PERSULPHATE	ALL		200	200	200	200	200	200	150	NR	NR	150
AMMONIUM PHOSPHATE, DIBASIC	ALL		200	180	210	210	210	210	150	NR	NR	150
AMMONIUM PHOSPHATE, MONOBASIC	ALL		200	180	210	210	210	210		150	130	NR
AMMONIUM POLYSULPHIDE	ALL		120	80	140		150	120	NR			
AMMONIUM SULPHATE	ALL		200	180	210	210	210	210	210	170	120	160
AMMONIUM SULPHIDE	ALL		120	80	120	120	120	100	120			
AMMONIUM SULPHITE	10		150	120	120	120	150	150	NR	NR	NR	
AMMONIUM THIOCYANATE	20		200	180	210	210	210	210	200	170	130	
AMMONIUM THIOCYANATE	50		120	80	120	120	120	120	120	100	80	100
AMMONIUM THIOSULFATE	ALL		120	80	120	120	120	120	120	100	80	NR
AMYL ACETATE	100		NR	NR	100	100	120	100	90	NR	NR	90
AMYL ALCOHOL (SEC-)	ALL	11	120	120	140	140	150	150	150	100	NR	NR
AMYL ALCOHOL (SEC-)	VAPORS	11	120	150	150	150	210	210	210	100	NR	NR
AMYL ALCOHOL (TERT-)	100	11	120	120	140	140	150	150	150	100	NR	NR
AMYL ALCOHOL (TERT-)	VAPORS	11	120	150	150	150	210	210	210	100	NR	NR
AMYL CHLORIDE	100		120	120	120	120	120	120	80	NR	NR	NR
ANILINE	100		NR	NR	NR	NR	NR	NR	NR	NR	NR	NR
ANILINE HYDROCHLORIDE	ALL		180	160	180	180	180	180				
ANILINE SULPHATE	ALL		200	170	210	210	210	210	200	NR	NR	140
ANTIMONY PENTACHLORIDE	100		100	80	90	100	100	100	90			90
ANTIMONY TRICHLORIDE	100		100	80	90	100	100	100	90			160
AQUA REGIA (HCL:HNO3 = 3:1)	100		NR	NR	NR	NR	NR	NR	130	NR	NR	NR
ARSENIC ACID	ALL		180				180	180		NR	NR	
ARSENIOUS ACID	ALL		180	150	180	180	180	180				
BARIUM ACETATE	ALL		180	180	180	180	180	180	180	NR	NR	NR
BARIUM BROMIDE	ALL		200	200	200	200	200	200				
BARIUM CARBONATE	100		180	180	180	180	180	180	180	100	NR	180
BARIUM CHLORIDE	ALL		200	200	200	200	210	210	200	170	130	180

Notes

- 1 Synthetic veil recommended
 - 2 Double synthetic veil recommended
 - 3 Double C-glass veil recommended
 - 4 Double C-glass veil recommended. The thickness of the chemical resistance barrier (veil plus chopped glass fibers) should be ≈0.200 inches thick
 - 5 Carbon Veil is recommended for improved service life.
 - 6 Acid resistant (ECR) glass recommended in chopped glass layer behind the veil layer(s)
 - 7 BPO/DMA or BPO/DEA curing system is recommended for improved service life.
 - 8 Post cure recommended for improved service life.
 - 9 Satisfactory up to maximum stable temperature of component.
 - 10 Contact Corrosion Product Leader (see page 3)
 - 11 Vipel® F764 or Vipel® F774 are recommended as the preferred products over Vipel® F701.
 - 12 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