

Chemical Listings



CORROSION
RESISTANT RESINS

CONCENTRATIONS AND RECOMMENDED MAXIMUM CONTINUOUS EXPOSURE TEMPERATURE - DEGREES F

CHEMICAL	CONC.%	NOTES	F010	F007		F083	F085			F701		Hood
			F013	F015	F080	F086	F282	K190	F704	F737	Duct	
			K022			K023	K095			F774		K733
			TEMPERATURE									
ETHYLENE GLYCOL	ALL	11	210	210	210	210	210	210	250	180	130	180
ETHYLENE GLYCOL MONOBUTYL ETHER	100		100	100	100	100	100	80	80		NR	90
ETHYLENE OXIDE	100		NR	NR	NR	NR	NR	NR	NR	NR	NR	NR
ETHYLHEXANOL -2	100		160				180	160		100		
ETHYLHEXYLACRYLATE -2	100		80				80	80				
EUCALYPTUS OIL	ALL	12	140	140	140	140	160	150	150	120	NR	170
FATTY ACIDS (C12 OR HIGHER)	ALL	12	200	250	210	210	250	210	250	180	130	180
FERRIC ACETATE	ALL		180	180	180	180	180	180	180			120
FERRIC CHLORIDE	ALL		200	180	210	210	210	210	210	180	120	140
FERRIC CHLORIDE / FERROUS CHLORIDE (5%/20%)	25		200	180	220	210	210	210	210	180		140
FERRIC CHLORIDE / FERROUS CHLORIDE/HYDROCHLORIC ACID (48/2/2)	52		200	180	220	210	210	210	210		NR	140
FERRIC CHLORIDE / HYDROCHLORIC ACID (29%/18.5%)	47.5		180	160	180	180	210	210	180		NR	140
FERRIC NITRATE	ALL		200	180	210	210	210	210	210	180	120	180
FERRIC SULPHATE	ALL		200	180	210	210	210	210	200	180	120	180
FERRIC SULPHATE / SULPHURIC ACID	SAT'D/10		180	130	180	180	180	180	180		NR	120
FERROUS CHLORIDE	ALL		200	180	210	210	210	210	210	160	120	180
FERROUS CHLORIDE / FERRIC CHLORIDE (20%/5%)	25		200	170	210	210	210	210	210	140		140
FERROUS CHLORIDE-HYDROCHLORIC ACID	ALL	6	120	80	120	120	120	120	150			100
FERROUS NITRATE	ALL		210	210	210	210	210	210	210	160	120	160
FERROUS SULPHATE	ALL		210	210	210	210	210	210	210	160	120	180
FERROUS SULPHATE / MAGNESIUM OXIDE (20%/10%)	30		200	180	210	210	210	210	210			180
FERTILIZER UREA (Phosphoric acid + Ammonia + Uran + Potash + Borax)			140	150	150	150	150	140		80		100
FERTILIZER, 8-8-8			140	140	150	150	140	140		80	NR	100
FERTILIZER, UREAAMMONIUM 35.4% UREA			140	140	150	150	140	140		80		100
FLUE GAS, WET	ALL		180	210	200	200	200	180	210			
FLUOBORIC ACID	10	2	180	180	180	180	180	180	200			180
FLUOBORIC ACID	15	2	100	100	100	100	100	100	100			120
FLUOBORIC ACID	25	2	100	100	100	100	100	100	100			100
FLUOBORIC ACID	SAT'D	2	100	80	100	100	100	100	100	80	NR	100
FLUORIDE SALTS / HYDROCHLORIC ACID (30%/10%)	40	2	120	80	120	120	120	120	120			
FLUORINE GAS		2					70					
FLUOROCARBON 11	100	1	110				110	110				

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