Chemical Listings

Vipel®
CORROSION
RESISTANT RESINS

CONCENTRATIONS AND RECOMMENDED MAXIMUM CONTINUOUS EXPOSURE TEMPERATURE - DEGREES F

CHEMICAL	CONC.%	NOTES	F010 F013 K022	F007 F015	F080	F083 K023	F085 F086 K095	F282	K190	F701 F707 F764 F774	F737	Hood & Duct K733
			TEMPERATURE									
HEXENE (3-TRANS-)	100		140				160	140				
HYDRAULIC FLUID, ALKALINE	100		80				80	80		NR	NR	
HYDRAULIC FLUID, NEUTRAL	100	**11**	180	180			180	180		80	NR	
HYDRAZINE	50		NR				70	NR		NR	NR	
HYDRAZINE	100		NR				NR	NR		NR	NR	
HYDRAZINE HYDRATE	16		80				80	80				
HYDROBROMIC ACID	18		180	160	180	180	180	180	180	160	80	160
HYDROBROMIC ACID	26		180	140	180	180	180	180	180	160		
HYDROBROMIC ACID	48		150	150	150	150	150	150	150	100	NR	160
HYDROBROMIC ACID	62		100				100	100				
HYDROCHLORIC ACID	10	**3,6**	180	210	210	210	210	210	210	160	120	180
HYDROCHLORIC ACID	18	**3,6**	180	200	200	200	210	180	210	100	80	
HYDROCHLORIC ACID	21	**4,6**	150	180	180	180	210	180	180	100	80	
HYDROCHLORIC ACID	25	**4,6**	150	180	180	180	200	180	180	140		150
HYDROCHLORIC ACID	37	**4,6**	100	80	100	100	120	90	100	NR	NR	
HYDROCHLORIC ACID, FUMES	100		210				250	250	250	NR	NR	NR
HYDROCHLORIC ACID AND TRACE ORGANICS		**4,6**	NR					NR	80			
HYDROCYANIC ACID, SATURATED			210		210	210	210	200	200	80	NR	180
HYDROFLUORIC ACID	10	**2,10**	120	120	100	100	150	100	100	80	NR	100
HYDROFLUORIC ACID	20	**2,10**	100	100		80	100	NR	90	NR	NR	NR
HYDROFLUOSILICIC ACID	10	**2,10**	180	150	150	180	180	150	180	80	NR	
HYDROFLUOSILICIC ACID	25	**2,10**	100		110	100	100	100	140	NR	NR	
HYDROFLUOSILICIC ACID	35	**2,10**	80		100	100	100	80	100	NR	NR	NR
HYDROGEN BROMIDE GAS, DRY	ALL		180		180	180	180	180	200	90	NR	90
HYDROGEN BROMIDE GAS, WET	ALL		180		180	180	180	180	180	90	NR	
HYDROGEN CHLORIDE GAS, DRY	ALL	**6**	200	200	220	250	250	210	250	120	NR	
HYDROGEN CHLORIDE GAS, WET	ALL	**6**	200	200	220	220	210	210	210	120	NR	120
HYDROGEN FLUORIDE GAS, DRY	ALL	**2,10**					180	100				
HYDROGEN PEROXIDE	5		150		150	150	150	150	150	150	NR	
HYDROGEN PEROXIDE	30		80	80	80	80	100	80	100	NR	NR	
HYDROGEN PEROXIDE	50								100			
HYDROGEN SULPHIDE, DRY GAS	5		200				350	250		140	77	
HYDROGEN SULPHIDE, DRY GAS	100		200	190	220	210	210	210	250	140	77	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