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									
MONOCHLOROACETIC ACID	100		NR				NR	NR				
MONOCHLOROBENZENE	100		N.R				100	NR	NR	NR	NR	NR
MONOETHANOL AMINE	100		NR				NR	NR	NR	NR	NR	
MONOMETHYLHYDRAZINE	100		NR				NR	NR		NR	NR	
MORPHOLINE	100		NR				80	NR	100		NR	
MOTOR OIL	100	**11**	210	250	220	220	250	210		180	110	
MURIATIC ACID (SEE HYDROCHLORIC ACID)												
MUSTARD	ALL	**12**	180	180	180	180	210	210	180	150	100	160
MYRISTIC ACID	100		210	210	210	210	250	210				
NAPHTALENE	100		210	210	200	210	210	210	90	150	100	130
NAPHTENOIC ACID (1-)	ALL		180	180			210	210				
NAPHTENOIC ACID (2-)	ALL		180	180			210	210				
NAPHTHA, ALIPHATIC	100	**11**	180	210			210	200		120	140	
NAPHTHA, AROMATIC	100	**11**		120			120	120		120		
NAPHTHYLAMINE-1-SULPHONIC ACID (2-)	ALL						210					
NEOPENTYL GLYCOL	80		180	180			180	180				
NEOPENTYL GLYCOL	100	**11**	180	180			180	180		140	100	
NICKEL CHLORIDE	ALL		210	210	210	210	210	210	210	180	100	180
NICKEL NITRATE	ALL		210	210	210	210	210	210	210	180	100	180
NICKEL SULFAMATE	ALL		180	180			180	180	180			
NICKEL SULPHATE	ALL		210	210	210	210	210	210	210	180	100	180
NICOTINIC ACID	ALL		120				120	120			NR	
NITRIC ACID	2		150	150		150	180	200	210			
NITRIC ACID	10		150	140	140	150	150	150	150		NR	
NITRIC ACID	20		120	120	120	120	150	120	140		NR	
NITRIC ACID	30		100	80	100	100	100	100	140		NR	
NITRIC ACID	50		NR	NR	NR	NR	NR	80	110		NR	
NITRIC ACID	60		NR	NR			NR	NR		NR	NR	
NITRIC ACID	FUMES	**8**	180	180	180	180	180	180	180		NR	
NITRIC ACID / CHROMIC ACID (15%/3%)	18	**2,8,10**	NR					NR				
NITRIC ACID / HYDROFLUORIC ACID (8%/4%)	12	**2,8,10**							80			
NITROBENZENE	100		NR	80	NR	NR	100	NR		NR	NR	

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