

Chemical Resistance Guide



BARIUM SALTS General ALL MAX C C C C C C EENZENE			Concentration			terstruct GRP m	_	_
AGETIONE CH ₃ COCH ₃ 100 239 S S I I ALCOHOLS General 100 48.9 C C I I ALCOHOLS General 100 48.9 C C I I ALCOHOLS General 100 48.9 C C I I ALCOHOLS GENERAL MAX C C C C C C ALUMINUM CHLORIDE AI(3,50/3), ALL MAX C C C C C C ALUMINUM CHLORIDE AI(6,1), 20 29.9 C C I I I AMMONIUM PLUORIDE AI(6,1), 20 29.9 C C I I I AMMONIUM PLUORIDE AI(6,1), 20 29.9 C C I I I AMMONIUM SALTS-NEUTRAL General ALL 48.9 C C C C C AMMONIUM SALTS-NEUTRAL General ALL 23.9 C C I I I AROMATIC SOLVENTS General ALL 23.9 S C I I I AROMATIC SOLVENTS General ALL 23.9 T T N N N AMMONIUM SALTS-AGERESIVE General ALL 23.9 T T N N N AMMONIUM SALTS-GENERAL GENERAL ALL MAX C C C C C G BENZENE C General ALL MAX C C C C C G BENZENE C General ALL MAX C C C I I I BLACK LIQUOR (pulp mill) HON ALL MAX C C I I I BLACK LIQUOR (pulp mill) NaOCI ALL MAX C C I I I CALCIUM HYDROXIDE Ca(601), 25 MAX C C C I I I CALCIUM HYDROXIDE Ca(601), 25 MAX C C C S S S CALCIUM HYDROXIDE Ca(601), 25 MAX C C C I I I CALCIUM HYDROXIDE Ca(601), 25 MAX C C C I I I CALCIUM HYDROXIDE Ca(601), 24 MAX C C C I I I CALCIUM HYDROXIDE Ca(601), 25 MAX C C C I I I CALCIUM HYDROXIDE Ca(601), 25 MAX C C C I I I CALCIUM HYDROXIDE Ca(601), 25 MAX C C C I I I CALCIUM HYDROXIDE Ca(601), 25 MAX C C C I I I CALCIUM HYDROXIDE Ca(601), 25 MAX C C C C C C C C C C C C C C C C C C C								
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ALUM AL(SO ₄)3 ALL MAX C C C C C C ALUMINUM CHLORIDE AICI ₃ ALL MAX C C C C C C C ALUMINUM CHLORIDE AICI ₃ ALL MAX C C C C C C C ALUMINUM HUDGRIDE AICI ₃ 20 23,9 C C I I I AMMONIUM HUDGRIDE AICI ₃ 20 23,9 C C N N N AMMONIUM ALTS-AUSTRAL General ALL 48,9 C C C C C AMMONIUM SALTS-AUSTRAL General ALL 23,9 C C I I I AROMATIC SOLVENTS General ALL 23,9 T T N N N BARIUM SALTS GORERAL GENERAL ALL MAX C C C C C C BENZENE GORERAL ALL MAX C C C C C C C BENZENE GORERAL ALL MAX C C C C C C C C C C C C C C C C C C C		= =		•				l
ALUMINUM CHLORIDE Al(OH) ₃ 20 23,9 C C C C C C AMMONIUM PYDROXIDE NH ₄ OH 30 23,9 C C N N AMMONIUM SALTS-NEUTRAL General ALL 48,9 C C C C C C C AMMONIUM SALTS-AGGRESSIVE General ALL 23,9 T T N N BARIUM SALTS General ALL 33,9 T T N N BARIUM SALTS General ALL ALL MAX C C C C C C C C C C C C C							<u> </u>	<u> </u>
ALUMINUM FLUORIDE AI(OH)3								
AMMONIUM HYDROXIDE							С	С
AMMONIUM SALTS-NEUTRAL General ALL 48,9 C C C C C AMMONIUM SALTS-AGGRESSIVE General ALL 23,9 S C I I I AMMONIUM SALTS-AGGRESSIVE General ALL 23,9 T T N N N BARIUM SALTS General ALL 23,9 T T N N N BARIUM SALTS General ALL MAX C C C C C C C C C C C C C C C C C C C		· · · · ·						
AMMONIUM SALTS-AGGRESSIVE General ALL 23,9 S C I I AROMATIC SOLVENTS General ALL 23,9 T T T N N N BARIUM SALTS General ALL ALL AMAX C C C C C C C BENZENE C ₀ H ₀ 100 60 I S I I I BLACK LIQUOR (pulp mill) HCN ALL MAX C C C I I I BLACK LIQUOR (pulp mill) NaOCI ALL MAX C C C I I I CALCIUM HYDROXIDE Ca(OH) ₂ 25 MAX C C C I I I CALCIUM HYDROXIDE Ca(OH) ₂ 25 MAX C C C S S S CALCIUM HYPOCHLORITE Ca(CIO) ₂ ALL MAX C C C I I I CALCIUM HYPOCHLORITE Ca(CIO) ₂ ALL MAX C C C I I I CALCIUM HYPOCHLORITE CA(CIO) ₂ ALL MAX C C C C C CARBON TETRACHLORIDE CL ₄ 100 23,9 C C I I I CHLORINATED HYDROCARBONS General ALL MAX C C C C C CARBON TETRACHLORIDE CL ₂ SAT 60 C C N N CHLORINE WATER CI ₂ (H ₂ O)(HOCI) SAT 48,9 C C C I I I CHLORINE WATER CI ₂ (H ₂ O)(HOCI) SAT 48,9 C C C I I I CHLORINE, WET CI(H ₂ O) SAT MAX C C C N N N CHLOROBENZENE C ₂ H ₂ CI 100 23,9 S S N N CHLOROBENZENE C ₄ H ₂ CI 100 23,9 S S N N N CHLOROBENZENE C ₄ H ₂ CI ALL Up to 37,8 C C N N N CHLOROBENZENE C ₄ H ₂ CI ALL Up to 37,8 C C N N N CHLOROBENZENE C ₄ H ₂ CI ALL Up to 37,8 C C C C C C C C C C C C C C C C C C C							N	
AROMATIC SOLVENTS General ALL 23,9 T T N N N BARIUM SALTS General ALL MAX C C C C C EBARIUM SALTS General ALL MAX C C C C C EBENZENE CopHs 100 60 I S I I BLACK LIQUOR (pulp mill) HCN ALL MAX C C C I I BLEACH LIQUOR (pulp mill) NaOCI ALL MAX C C C I I BLEACH LIQUOR (pulp mill) NaOCI ALL MAX C C C I I BLEACH LIQUOR (pulp mill) NaOCI ALL MAX C C C I I CALCIUM HYPOROXIDE Ca(OH)2 25 MAX C C C S S CALCIUM HYPOCHLORITE Ca(CIO)2 ALL MAX C C C I CALCIUM HYPOCHLORITE Ca(CIO)2 ALL MAX C C C C C CARBON TETRACHLORIDE CCI4 100 23,9 C C I I CHLORINATED HYDROCARBONS General 100 23,9 T T T T T T CHLORINATED HYDROCARBONS General 100 23,9 T T T T T T CHLORINE DIOXIDE CIQ2 SAT 60 C C N N CHLORINE WATER CI2(H2O)(HOCI) SAT 48,9 C C C I I CHLORINE, WET CI(H2O) SAT MAX C C C N N CHLOROBENZENE CoH5CI 100 23,9 S S N N CHLOROBENZENE CoH5CI 100 23,9 S S N N CHLOROBENZENE CoH5CI 100 23,9 S S N N CHLOROFORM CHCI3 100 23,9 S S N N N CHLOROFORM CHCI3 100 23,9 S S N N N CHLOROFORM CHCI3 100 23,9 N N N N N N CHLOROFORM CHCI3 100 23,9 S S N N N CHLOROFORM CHCI3 100 23,9 N N N N N N CHLOROFORM CHCI3 100 23,9 N N N N N N CHLOROBENZENE CoH5CI 100 23,9 N N N N N N CHLOROBENZENE CoH5CI 100 23,9 N N N N N N CHLOROBENZENE COH5CI 100 23,9 T S N N N CHLOROBENZENE COH5CI 100 23,9 T S N N N CHLOROBENZENE COH5CI 100 23,9 T S N N N CHLOROBENZENE COH5CI 100 23,9 T S N N N CHLOROBENZENE COH5CI 100 23,9 T S N N N CHLOROBENZENE COH5CI 100 23,9 T S N N N CHLOROBENZENE COH5CI 100 23,9 T S N N N CHLOROBENZENE COH5CI 100 23,9 T S N N N CHLOROBENZENE COH5CI 100 23,9 T S N N N CHLOROBENZENE COH5CI 100 23,9 T S N N N CHLOROBENZENE COH5CI 100 23,9 T S N N N CHLOROBENZENE COH5CI 100 23,9 T S N N N CHLOROBENZENE COH5CI 100 23,9 T S N N N CHLOROBENZENE COH5CI 100 23,9 T S N N N CHLOROBENZENE COH5CI 100 23,9 T S N N N CHLOROBENZENE COH5CI 100 23,9 T S N N N CHLOROBENZENE COH5CI 100 23,9 T S N N N CHLOROBENZENE COH5CI 100 23,9 T S N N N N CHLOROBENZENE COH5CI 100 200 200 200				,		_	С	С
BARIUM SALTS	AMMONIUM SALTS-AGGRESSIVE	General	ALL		S		ı	ı
BENZENE	AROMATIC SOLVENTS	General		23,9	T	Т	N	N
BLACK LIQUOR (pulp mill)	BARIUM SALTS						С	С
BLEACH LIQUOR (pulp mill)	BENZENE	C ₆ H ₆	100	60	I	S	1	1
CALCIUM HYDROXIDE	BLACK LIQUOR (pulp mill)	HCN	ALL	MAX	С	С	1	1
CALCIUM HYPOCHLORITE	BLEACH LIQUOR (pulp mill)				С	С	1	1
CALCIUM SALTS		` '-			С	С	S	S
CARBON TETRACHLORIDE	CALCIUM HYPOCHLORITE	Ca(CIO) ₂	ALL	MAX	С	С	1	1
CHLORINATED HYDROCARBONS General 100 23,9 T T T T T CHLORINE DIOXIDE CIO2 SAT 60 C C N N N CHLORINE WATER CI2(H2O)(HOCI) SAT 48,9 C C I I I CHLORINE, WET CI(H2O) SAT MAX C C N N N CHLORINE, WET CI(H2O) SAT MAX C C N N N CHLOROBENZENE C8H5CI 100 23,9 S S N N N CHLOROBENZENE C8H5CI ALL Up to 37,8 C C N N N CHLOROFORM CHCI3 100 23,9 N N N N N N N N N	CALCIUM SALTS			MAX	С	С	С	С
CHLORINE DIOXIDE	CARBON TETRACHLORIDE	CCI ₄	100	23,9	С	С	1	1
$ \begin{array}{cccccccccccccccccccccccccccccccccccc$	CHLORINATED HYDROCARBONS	General	100	23,9	Т	Т	Т	Т
$ \begin{array}{cccccccccccccccccccccccccccccccccccc$	CHLORINE DIOXIDE	CIO ₂	SAT	60	С	С	N	N
$ \begin{array}{cccccccccccccccccccccccccccccccccccc$	CHLORINE WATER	Cl ₂ (H ₂ O)(HOCl)	SAT	48,9	С	С	1	1
CHLOROBENZENE C ₆ H ₉ CI ALL Up to 37,8 C C N N CHLOROFORM CHCl ₃ 100 23,9 N N N N CHROMIC ACID CrO ₃ 50 60 S S S S CITRIC ACID ALL MAX C C C C C C C C C C C C C C C C C C C C C C C C C C C C C C C C C C C C C C C C C C C C C C C C C C C C C C C C C C C C C C C C C C C C C C C C	CHLORINE, WET	CI(H ₂ O)	SAT	MAX	С	С	N	N
CHLOROFORM CHCl3 100 23,9 N N N N CHROMIC ACID CrO3 50 60 S S S S CITRIC ACID ALL MAX C C C C C C C C C C C C C C C C C C C C C C C C C C C C C C C C C C C C C C C C C C C C C C C C C C C C C C C C C C C C C C C C C C C C C C C C C C C C C C C C C C C <td< td=""><td>CHLOROBENZENE</td><td>C₆H₅CI</td><td>100</td><td>23,9</td><td>S</td><td>S</td><td>N</td><td>N</td></td<>	CHLOROBENZENE	C ₆ H ₅ CI	100	23,9	S	S	N	N
CHROMIC ACID	CHLOROBENZENE	C ₆ H ₅ CI	ALL	Up to 37,8	С	С	N	N
CITRIC ACID ALL MAX C C C C C C C C C C C C C C C C C C C	CHLOROFORM	CHCl ₃	100	23,9	N	N	N	N
COPPER CYANIDE PLATING Cu(CN)2 ALL 51,7 C C S S COPPER SALTS General ALL MAX C C C C C C C C C C C C C C C C C C C C C C C C C C C C C C C C C C C C C C C C C C C C C C C C C C C C C C C C C C C C C C C C C C C C C C C C C C C C C C C C C C C C C C C C C C C	CHROMIC ACID	CrO ₃	50	60	S	S	S	S
COPPER SALTS General ALL MAX C C C C C C C C C C C C C C C C C C C	CITRIC ACID		ALL	MAX	С	С	С	С
CRUDE OIL (sweet or sour) General ALL MAX C C C C C DICHLOROBENZENE $C_6H_4Cl_2$ 100 23,9 T S N N N ETHERS General 23,9 T T N N N FERRIC CHLORIDE FeCl ₃ 100 MAX C C C C C C FERRIC SALTS General ALL MAX C C C C C C FLUORIDE SALTS + HCI General ALL 23,9 C C S S S FLUOSILICIC ACID H_2SiF_6 10 23,9 C C S S S FORMALDEHYDE HCHO 37 65,6 C C I I I FORMIC ACID HCOOH 25 37,8 C C S S S FUEL (diesel, jet, gasoline) General ALL 37,8 C C C C C C C C C C C C C C C C C C C	COPPER CYANIDE PLATING	Cu(CN) ₂	ALL	51,7	С	С	S	S
$ \begin{array}{cccccccccccccccccccccccccccccccccccc$	COPPER SALTS	General	ALL	MAX	С	С	С	С
$ \begin{array}{cccccccccccccccccccccccccccccccccccc$	CRUDE OIL (sweet or sour)	General	ALL	MAX	С	С	С	С
FERRIC CHLORIDE FeCI ₃ 100 MAX C C C C C C C C C C C C C C C C C C C C C C C C C C C C C C C S S S F FUDOSILICIC ACID HCHO 37 65,6 C C C I I I I F FORMIC ACID HCOOH 25 37,8 C C C S S S S S S S S S S S S S S S S S S S S S S S S S S S S S S S S S S S S S S S S S S S S S S	DICHLOROBENZENE	C ₆ H ₄ Cl ₂	100	23,9	Т	S	N	N
FERRIC CHLORIDE FeCI₃ 100 MAX C C C C FERRIC SALTS General ALL MAX C C C C FLUORIDE SALTS + HCI General ALL 23,9 C C S S FLUOSILICIC ACID H₂SiF₆ 10 23,9 C C S S FORMALDEHYDE HCHO 37 65,6 C C I I I FORMIC ACID HCOOH 25 37,8 C C S S FUEL (diesel, jet, gasoline) General ALL 37,8 C C C C C C C C C C C C C C C C C C C C C C C C C C C C C C C C C C C C C N N	ETHERS	General		23,9	Т	Т	N	N
FLUORIDE SALTS + HCI General ALL 23,9 C C S S FLUOSILICIC ACID H2SiF6 10 23,9 C C S S FORMALDEHYDE HCHO 37 65,6 C C I I FORMIC ACID HCOOH 25 37,8 C C S S FUEL (diesel, jet, gasoline) General ALL 37,8 C C C C C C C C C C C C C C C C C C C C C C C C C C C C C C C C C C C C C C C C C C C C C C C C C N N N N N N N N N N N	FERRIC CHLORIDE	FeCl ₃	100	MAX	С	С	С	С
FLUORIDE SALTS + HCI General ALL 23,9 C C S S FLUOSILICIC ACID H2SiF6 10 23,9 C C S S FORMALDEHYDE HCHO 37 65,6 C C I I FORMIC ACID HCOOH 25 37,8 C C S S FUEL (diesel, jet, gasoline) General ALL 37,8 C C C C C C C C C C C C C C C C C C C C C C C C C C C C C C C C C C C C C C C C C C C C C C C C C N N N N N N N N N N N	FERRIC SALTS	General	ALL	MAX	С	С	С	С
$ \begin{array}{cccccccccccccccccccccccccccccccccccc$	FLUORIDE SALTS + HCI							
FORMIC ACID	FLUOSILICIC ACID	H ₂ SiF ₆						S
FORMIC ACID	FORMALDEHYDE	нсно	37	65.6	С	С	1	1
FUEL (diesel, jet, gasoline) General ALL 37,8 C C C C C C C C C C C C C C C C C C C C C C C C C C C C C C C C C C N N N N N N N N N N N N N N N N N N N N N N N N N N N N N N N N N N N N N N N N N N N N N N N N N N N N N N N N N N N N N N N N N N N							S	S
$\begin{array}{cccccccccccccccccccccccccccccccccccc$								
GREEN LIQUOR (pulp mill) ALL MAX C C N N HYDROBROMIC ACID HBr 48 MAX S S S S HYDROCHLORIC ACID HCI 10 MAX C C S S HYDROCHLORIC ACID HCI 30 MAX CS C S S HYDROCHLORIC ACID (concentrate HCI ALL Up to 82,2 I C N N	GLYCERINE							
HYDROBROMIC ACID HBr 48 MAX S S S S HYDROCHLORIC ACID HCI 10 MAX C C S S HYDROCHLORIC ACID HCI 30 MAX CS C S S HYDROCHLORIC ACID (concentrat∉ HCI ALL Up to 82,2 I C N N								
HYDROCHLORIC ACID HCI 10 MAX C C S S HYDROCHLORIC ACID HCI 30 MAX CS C S S HYDROCHLORIC ACID (concentrate HCI ALL Up to 82,2 I C N N		HBr						
HYDROCHLORIC ACID HCI 30 MAX CS C S S HYDROCHLORIC ACID (concentrate HCI ALL Up to 82,2 I C N N								
HYDROCHLORIC ACID (concentrat∉HCI ALL Up to 82,2 I C N N								
	HYDROCYANIC ACID	HCn	ALL	MAX	C	C	1 N	1 N

C = Continuous exposure of the grating to the chemical environment listed at the temperature listed.

Super VE-FR series may require benzoyl peroxide-DMA cure system to increase life.

Consult Fiberstruct for corrosion recommendations at concentrations, temperatures or chemicals not listed in this guide.

Max recommended operating temp is 82°C for VE-FR, 65° C for ISO-FR series, and FD-FR series.

The information in this Chemical Resistance Guide is correct to the best of Fiberstruct's knowledge.

It is based on extensive experience with fiberglass grating in corrosive applications. Because actual use

conditions differ and mixtures of corrosives will occur in service, the end user must test for use under actual conditions.

Fiberstruct's responsibility for claims arising from breach of warranty, negligence or otherwise

is limited to the purchase price of the material sold bij Fiberstruct. Test coupons are available upon specific request.

S = Frequent exposure of the grating to splashes and spills from the chemical environment listed with that environment at the temperature listed.

 $I = Infrequent \ exposure \ of \ the \ grating \ to \ splashes \ and \ spills \ from \ the \ chemical \ environment \ listed \ with \ that$

environment at the temperature listed and the spill immediately cleaned up or washed from the grating.

 $^{{\}bf N}$ = Not recommended for the concentrations and temperatures listed.

T = Test

		Concentration	Temperature	In	Interstruct GRP molded gratings			
Chemical environment		%	C	VE-FR	Super VE-FR	ISO-FR	FD-FR	
HYDROFLUORIC ACID	HF	20	23,9	S	С	N	N	
HYDROGEN PEROXIDE	H_2O_2	30	23,9	С	С	N	N	
LACTIC ACID	CH ₃ CHOHCOOI	100	MAX	С	С	С	С	
LIME SLURRY		SAT	MAX	С	С	С	С	
LITHIUM SALTS	General	ALL	MAX	С	С	С	С	
MAGNESIUM SALTS	General	ALL	MAX	С	С	С	С	
MALEIC ACID	(HC.COOH) ₂	100	MAX	С	С	S	S	
MERCURY CHLORIDE	HgCl ₂	100	MAX	С	С	С	С	
NICKEL SALT		ALL	MAX	С	С	С	С	
NITRIC ACID	HNO ₃	20	48,9	С	С	S	S	
NITRIC ACID	HNO ₃	35	37,8	С	С	N	N	
NITRIC ACID	HNO ₃	40	Ambient	- 1	С	N	N	
NITRIC, HYDROFLUORIC		20:2	23,9	I	С	N	N	
NITROUS ACID		10	23,9	С	С	С	С	
OZONE for SEWAGE TREATMENT			37,8	С	С	С	С	
PERCHLOROETHYLENE	CCI ₂	100	23,9	S	С	N	N	
PHENOL	C ₆ H ₅ OH	10	23,9	С	С	N	N	
PHENOL	C ₆ H ₅ OH	88	Ambient	S	С	N	N	
PHOSPHORIC ACID	H ₃ PO ₄	85	MAX	С	С	С	С	
PHOSPHORIC ACID, super	H ₃ PO ₄	115	MAX	С	С	1	1	
POTASSIUM HYDROXIDE	КОН	10	48,9	С	С	1	1	
POTASSIUM SALTS	General	ALL	MAX	С	С	С	С	
SILVER NITRATE	AgNO ₃	100	MAX	С	С	С	С	
SODIUM CYANIDE	NaCN	ALL	23,9	С	С	1	1	
SODIUM HYDROXIDE	NaOH	10	MAX	С	С	1	1	
SODIUM HYDROXIDE	NaOH	50	MAX	С	С	N	N	
SODIUM HYPOCHLORITE (stable)	NaOCI	10	37,8	С	С	S	s	
SODIUM SALTS-NEUTRAL	General	ALL	MAX	С	С	С	С	
SODIUM SALT-AGGRESSIVE	SO ₂	ALL	23,9	S	С	I	I	
SULFUR DIOXIDE	H ₂ SO ₄	SAT	MAX	С	С	S	S	
SULFURIC ACID	H ₂ SO ₄	25	MAX	С	С	S	S	
SULFURIC ACID	H ₂ SO ₄	50	MAX	С	С	S	S	
SULFURIC ACID	H ₂ SO ₄	75	37,8	С	С	ı	ı	
TOLUENE	C ₆ H ₅ CH ₃	100	48,9	S	С	I	1	
TRICHLOROETHANE 1,1,1	CICH ₂ CHCl ₂	ALL	23,9	S	С	ı	ı	
TRISODIUM PHOSPHATE	Na ₃ PO ₄	50	MAX	С	С	I	1	
WATER (fresh, salt, moderate D.I.)	H ₂ O	100	MAX	С	С	С	С	
WET CHLORINE/hydrochloric acid		10-20	Up to 176,7	S	С	N	N	
WHITE LIQUOR (pulp mill)	ZnCl ₂	ALL	MAX	C	C	ı		
ZINC CHLORIDE PLATING	_	ALL	23,9	С	С	S	S	
ZINC SALTS		100	MAX	C	C	C	c	
							-	

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S = Frequent exposure of the grating to splashes and spills from the chemical environment listed with that environment at the temperature listed.

I = Infrequent exposure of the grating to splashes and spills from the chemical environment listed with that

environment at the temperature listed and the spill immediately cleaned up or washed from the grating.

N = Not recommended for the concentrations and temperatures listed.

T = Test.