



## Fibaroll Chemical Resistance Chart

### Fibaroll Chemical Resistance (CR) Grades

Fibaroll is a range of fibre reinforced plastics delivered in composite form but uncured. It can then be easily cut and applied in situ and cures quickly with U/ V light. The usual roll size is 0.6m x 10m.

Fibaroll CR is composed from chemical resistant resins and uses C - glass or synthetic veils to improve corrosion protection.

Fibaroll CR is delivered in roll format between two nylon films. This has the advantage that the composite is easy to handle and that when curing air inhibition is totally avoided and styrene emissions are reduced significantly. Typical weight loss of Fibaroll during cure is less than 0.5%

### Fibaroll CR Range

Fibaroll CR is formulated from a number of different resins and the enclosed chemical tables give the resin manufacturers guide for maximum recommended temperatures for full immersion conditions. Therefore when considering intermittent exposure different recommendations may apply.

These chemical charts have been constructed assuming optimal cure and where applicable elevated temperature post cure conditions. In situ applications for lining existing structures may make post cure at elevated temperatures difficult or impossible to achieve.

The usual disclaimers from the resin manufacturers mean that FTI cannot be held responsible for any recommendations herein and any legal obligations shall be determined solely by the terms of its respective sales contract.

### Fibaroll VECR Epoxy Novolac Vinyl Ester

This resin has been designed to give maximum resistance to strong acids, alkalis, oxidizing media and organic solvents over a wide range of service temperatures. The resin has a heat distortion temperature of 155 °C.

### Fibaroll ISO Isophthalic Polyester

Good resistance to acids in particular.

### Key to the symbols used in the chemical resistant tables

NR	Not Recommended, although may be acceptable for secondary contaminant and intermittent spillage situations.
NT	Not tested
RT	Room Temperature

## Fibaroll Chemical Resistance Chart

Solvent	% conc	FIBAROLL	FIBAROLL
		VECR	ISO
		Temp °C	Temp °C
Acetic Acid	10	99	60
	25	99	60
	50	82	50
	75	65	RT
	100	38	NR
Acetic Anhydride	100	38	NR
Acetone	10	82	NR
	100	NR	NR
Acid Cleaner 31% hydrochloric acid		88	NT
Acrylamide	50	38	NT
Acrylic Acid	25	38	NT
Acrylic Latex		49	60
Adipic Acid	All	80	80
Alcohol, Amyl	All	99	40
Alcohol, Butyl	All	49	40
Alcohol, Ethyl	95%	40	40
Alcohol, Isodecyl	All	60	60
Alkyl Benzene Sulphonic Acid	All	60	60
Alpha Methyl Styrene	100	49	NT
Aluminium Chloride	All	121	60
Aluminium Flouride	All	27	NT
Aluminium Nitrate	All	80	80
Aluminium Sulphate	All	121	40
Ammonia Gas	Gas	38	NR
Ammonium Acetate	All	RT	RT
Ammonium Bicarbonate	All	65	40
Ammonium Bifluoride	All	65	40
Ammonium Bromate	All	80	60
Ammonium Bromide	All	80	60
Ammonium Chloride	All	99	60
Ammonium Citrate	All	65	40
Ammonium Flouride	All	65	40
Ammonium Hydroxide	20%	38	RT
Ammonium Lauryl Sulphate	All	49	40
Ammonium Nitrate	All	121	60
Ammonium Persulphate	All	82	RT
Ammonium Phosphate, Mono- Dibasic	All	99	40
Ammonium Polysulphide	All	65	RT
Amyl Acetate	All	49	RT
Amyl Alcohol	All	99	40
Amyl Chloride	100	49	NR
Aniline	100	21	NR
Aniline Hydrochloride	All	82	RT

## Fibaroll Chemical Resistance Chart

Solvent	% conc	FIBAROLL	FIBAROLL
		VECR	ISO
		Temp °C	Temp °C
Aniline Sulphate	All	99	RT
Arsenic Acid	All	38	60
Arsenious Acid	All	82	60
Barium Acetate	All	82	60
Barium Bromide	All	99	60
Barium Carbonate	All	121	NT
Barium Chloride	All	99	60
Barium Cyanide	All	65	NR
Barium Hydroxide	All	65	NT
Benzaldehyde	100%	21	NR
Benzene	100%	38	NR
Benzene/ Ethyl Benzene		38	NR
Benzene, Sulphonic Acid	All	65	RT
Benzoic Acid	Sat'd	99	60
Benzyl Alcohol	All	38	RT
Benzyl Chloride	100%	27	RT
Bisulphite in scrubber	Gases	177	NT
Black Liquor (Pulp Mill)	All	82	NT
Black Liquor (Pulp Mill) Thick	All	104	NT
Black Liquor Kraft	Thin	82	NT
Black liquor recovery furnace gases		204	NT
Bleach Liquor (Pulp Mill)	100	93	NT
Bleach Calcium Hypochlorite	All	82	NR
BleachChlorine Dioxide, Wet	Sat'd	86	RT
Bleach Chlorine Water	All	99	NR
Peroxides Dilute		99	NT
Bleach Sodium Hypochlorite	18%	82	NR
Borax	100%	99	80
Boric Acid	All	99	60
Brine	All	99	60
Bromine Dry / Wet Gas	100%	38	NR
Butoxyethanol-2	100%	38	NR
Butyl Acetate	100%	27	NR
Butyl Acrylate	100%	27	NR
Butyl Alcohol	100%	49	40
Butyl Benzoate	100%	38	40
Butyl Benzyl Phthalate	100%	99	40
Butyl Carbitol	100%	38	40
Butyl Cellosolve	100%	38	NR
Butyl Stearate	100%	NT	RT
Butylene Glycol	100%	82	40
Butyraldehyde	100%	38	NR

## Fibaroll Chemical Resistance Chart

Solvent	% conc	FIBAROLL	FIBAROLL
		VECR	ISO
		Temp °C	Temp °C
Butyric Acid	100%	49	40
Cadmium Chloride	All	82	60
Calcium Bromide	All	99	60
Calcium Chlorate	All	121	60
Calcium Chloride	All	121	NT
Calcium Hydroxide	100	99	NT
Calcium Hypochlorite	All	82	NR
Calcium Nitrate	All	99	60
Calcium Sulphate	All	121	NT
Caprylic Acid	All	99	80
Carbon Dioxide Gas		177	100
Carbon Disulphide	Fumes	65	NR
Carbon MonoxideGas		204	100
Carbon Tetrachloride	100%	82	RT
Cashew Nut Oil	100%	NT	80
Castor Oil	100%	71	80
Caustic (See Sodium Hydroxide)			
Chlorinated Wax	All	82	60
Chlorine Dioxide	All	RT	RT
Chlorine Dioxide, Wet	8 – 10	177	RT
Chlorine Water	Sat'd	99	NR
Chlorine, dry gas	100	121	NR
Chlorine, wet gas	100	121	NR
Chloroacetic Acid	25	49	RT
Chloroacetic Acid	50	38	RT
Chloroacetic Acid	Conc	NR	NR
Chlorobenzene	100	38	NR
Chloroform	100	NR	NR
Chloropyridine (tetra)	100	49	NT
Chlorosulphonic Acid	10	NR	NT
Chlorotoluene	100	38	NR
Chrome Bath, 19% Chromic Acid with		65	NT
Chromic Acid	5	65	60
Chromic Acid	10	65	60
Chromic Acid	20	65	NT
Chromic Acid	40	NT	RT
Chromium Plate		54	NT
Chromium Sulphate	All	82	60
Citric Acid	All	99	60
Cobalt Chloride	All	82	60
Cobalt Citrate	12	82	60
Cobalt Nitrate	All	NT	60

## Fibaroll Chemical Resistance Chart

Solvent	% conc	FIBAROLL	FIBAROLL
		VECR	ISO
		Temp °C	Temp °C
Coconut Oil	All	93	80
Cod-liver Oil	All	93	80
CONTINUE ETCH solvent		38	NT
Copper Chloride	All	121	60
Copper Cyanide	All	99	NR
Copper Cyanide Plating Bath (10.5% Copper and 14% Sodium Cyanides; 6% Rochelle Salts)		99	NR
Copper Cyanide, Potassium Cyanide, Potassium Hydroxide	08:03:02	82	NT
Copper Matte Dipping Bath, 30% FeCl <sub>3</sub> 19%; Hydrochloric		93	NT
Copper Nitrate	All	99	60
Copper Plating Solution 45% Cu(BF <sub>4</sub> ) <sub>2</sub> ; 19% Copper Sulphate; 8% Sulphonic		82	NT
Copper Sulphate	All	121	60
Corn Oil		99	80
Corn Starch		NT	60
Corn Sugar		NT	60
Cottonseed Oil		99	80
Crude Oil, Sour	100%	121	60
Crude Oil, Sweet	100%	121	60
Cyanide Disposal (Hypo)		38	NT
Cyclohexane	100%	65	50
DMA 6 Weed Killer		49	NT
DALAPON grass killer		27	NT
Decanol	100	82	60
Deionized Water	100	82	60
Demineralized Water	100	99	
Detergents, Organic pH 12	100	82	NT
Diallylphthalate	All	99	RT
Di-ammonium Phosphate	65	99	NT
Dibromo Phenol		38	NR
Dibutyl Ether	100	99	NR
Dibutyl Sebacate	All	65	60
Dibutylphthalate	All	99	60
Dichlorobenzene	100	49	RT
Dichloroethane	100	27	NR
Dichloroethylene	100	NR	NT
Dichloromethane (Methylene Chloride)100	NR	NR	

## Fibaroll Chemical Resistance Chart

Solvent	% conc	FIBAROLL	FIBAROLL
		VECR	ISO
		Temp °C	Temp °C
2, 4-Dichlorophenoxyacetic Acid (Acid, Salts, Esters and Formulations)		49	
Dichloropropane	100	38	NT
Dichloropropene	100	27	NT
Dichlorotoluene	100	49	RT
Diesel Fuel	100	99	60
Diethanol Amine	100	49	NR
Diethyl Benzene	100	65	NR
Diethyl Carbonate	100	38	NT
Diethyl Ketone	100	27	NR
Diethyl Sulphate	100	49	RT
Diethyl Glycol	100	99	NT
DOWANOL DB Diethylene Glycol n-butyl ether (See also Butyl CARBITOL)	100	38	NT
Diisobutyl Ketone		49	NT
Diisobutyl Phthalate	100	65	60
Diisobutylene	100	38	RT
Diisopropanol Amine	100	65	NR
Dimethyl Formamide	100	NR	NR
Dimethyl Morpholine	100	49	NT
Dimethyl Phthalate	100	82	50
Dimethyl Sulphide	100	27	NT
2, 2-Dimethyl Thiazolidine	100	82	NT
Diocyl Phthalate	100	99	NT
Dipotassium phosphate	50	38	60
Dipropylene Glycol	100	99	80
Distilled Water	100	82	60
Divinyl Benzene	100	49	RT
Dodecanol (Lauryl Alcohol)	100	82	60
Dodecene	100	82	60
Dodecyl Benzene Sulphonic Acid: Sulphuric Acid: Water: Oil	85 : 10 : 4 : 1	65	
Dodecyl Benzene Sulphonic Acid	100	49	80
DOWANOL DB Glycol Ether	100	38	NR
DOWANOL EB Glycol Ether (Ethylene Glycol n-butyl ether)	100	38	NT
DOWANOL PM Glycol Ether	100	21	NT
DOWCENE EC Solvent	100	49	NT
DOWEX 50WX4 Ion Exchange Resin		99	NT
DOWFAX 2A0 Solution Surfactant	40% Soln	49	NT
DOWFAX 2A1 Surfactant	45% Soln	49	NT
DOWICIDE Antimicrobial		49	NT

## Fibaroll Chemical Resistance Chart

Solvent	% conc	FIBAROLL VECR Temp °C	FIBAROLL ISO Temp °C
DOWTHERM Heat Transfer Agent	100	65	NT
ELECTROSOL Anti-static Agent	5	65	NT
ENDURA-ETCH Solution	100	32	NT
Epichlorohydrin	100	27	NR
Epoxidized Castor Oil	100	NT	80
Epoxidized Soybean Oil	100	65	80
ESTERON 245 Herbicide	100	65	NT
ESTERON Herbicide	100	65	NT
Esters, Fatty Acid	100	82	80
Ethanol	99	38	40
Ethanol	50	65	RT
Ethanol (Ethyl Alcohol)	10	65	
Ethanolamine	100	27	NR
Ethyl Acetate		21	NR
Ethyl Acrylate		NR	NR
Ethyl Benzene		49	NR
Ethyl Benzene: Benzene	2/3 : 1/3	38	NT
Ethyl Bromide		NR	NT
Ethyl Chloride	100	27	NR
Ethyl Ether	100	NR	NR
Ethyl Sulphate	100	38	NT
Ethylene Chlorohydrin	100	38	NR
Ethylene Dichloride (See Dichloroethane) 100	27	NR	
Ethylene Glycol	All	99	60
Ethylene Glycol Monobutyl Ether	100	38	NR
Ethylenediamine tetraacetic acid (See VERSENE 100)		38	NR
Eucalyptus Oil	100	60	80
Fatty Acids	All	121	80
Ferric Acetate	Sat'd	82	60
Ferric Chloride	All	99	60
Ferric Chloride: Ferrous Chloride	05:20	99	NT
Ferric Chloride: Ferrous Chloride: Hydrochloric Acid	48 : 0.2 : 0.2	82	50
Ferric Chloride: Hydrochloric Acid	29:19.0	82	50
Ferric Nitrate	All	99	60
Ferric Sulphate	All	99	60
Ferrous Chloride	All	99	60
Ferrous Chloride: Ferric Chloride	20:05	99	NT
Ferrous Nitrate	All	99	60
Ferrous Sulphate	All	99	60

## Fibaroll Chemical Resistance Chart

Solvent	% conc	FIBAROLL VECR Temp °C	FIBAROLL ISO Temp °C
Fertilizer URAN Urea ammonium nitrate composition: 43.3% Ammonium nitrate 35.4% Urea, 20.3% Water		49	NR
8-8-8 Fertilizer Composition (Parts by wt. - 30 phosphoric acid, 29 ammonia, 104.3 water ,10.4 Uran, 26.0 potash, 3.0 Borax pH 8.2)		49	NR
Flue Gass		204	NT
Fluoboric Acid	All	99	40
FluorideSalts + Hydrochloric Acid	30:10:00	49	NR
Flourine Gas		Amb	NR
Fluosilicic Acid	10	82	RT
Fluosilicic Acid	25	38	RT
Fluosilicic Acid	35	38	RT
Fluosilicic Acid Fumes		82	NT
Fly Ash Slurry		65	NT
Formaldehyde	44	65	50
Formaldehydes	All	65	NR
Formic Acid	10	82	60
Formic Acid	98	38	NR
Formamide	100	25	RT
FOSTERGE Products		38	NT
FREON 11 Solvent		38	NT
Fuel Oil	100	99	RT
Furfural	100	NR	NR
Furfural Alcohol"	100	27	NR
GALECRON 4EC Insecticide	100	49	NT
Gallic Acid	Sat 'd	38	60
Gasoline, Leaded	100	82	60
Gasohol (20% Methanol)	100	NT	NR
Gasoline, Aviation	100	82	60
Gasoline, No Lead, No Methanol	100	65	NT
Gluconic Acid	50	82	60
Glucose	100	121	40
Gluteraldehyde	50	49	NT
Gluteric Acid	50	49	60
Glycerine	100	99	60
Glycol	All	99	60
Glycolic Acid (Hydroxy acetic)	70	38	NT
Glyoxal	40	38	RT

## Fibaroll Chemical Resistance Chart

Solvent	% conc	FIBAROLL	FIBAROLL
		VECR	ISO
		Temp °C	Temp °C
Gold Plating Solution			
(23% Potassium Ferrocyanide with			
Potassium Gold Cyanide and			
Sodium Cyanide)		38	NT
n-Heptane	100	99	50
Herbicides		49	NT
Hexachloroethane	100	49	NT
Hexamethylenetetramine	40	49	NT
Hexane	100	71	40
Hot Stack Gass		204	NT
Hydraulic Fluid	100	82	RT
Hydrazine	100	NR	NT
Hydriodic Acid	40	65	NT
Hydrobromic Acid	18	82	50
Hydrobromic Acid	25	82	50
Hydrobromic Acid	48	65	40
Hydrobromic Acid	62	38	NT
Hydrochloric Acid	10	110	RT
HydrochloricAcid	15	110	RT
HydrochloricAcid	20	110	50
Hydrochloric Acid	37	82	RT
Hydrochloric Acid & Organics		65	NR
Hydrochloric Acid + Free Chlorine	All	110	NT
Hydrochloric Acid Fumes		177	NT
Hydrocyanic Acid	All	99	NT
Hydrofluoric Acid	10	65	RT
Hydrofluoric Acid	20	38	NT
Hydrofluosilic Acid	10	82	RT
Hydrofluosilic Acid	25	38	
Hydrofluosilic Acid	35	38	
Hydrogen Bromide, wet gas	100	82	NT
Hydrogen Chloride, dry gas	100	177	NT
Hydrogen Chloride, wet gas	100	177	NT
Hydrogen Fluoride, vapour		82	NT
Hydrogen Peroxide	30	65	RT
Hydrogen Sulphide	5	177	NT
Hydrogen Sulphide	100	99	NT
Hydrosulphite Bleach - aqueous solution			
containing 5% zinc hydrosulphite and			
2.5% tripolyphosphate		82	NT
Hydroxyacetic Acid (Glycolic Acid)	70	38	NT
Hypophosphorous Acid	50	49	RT

## Fibaroll Chemical Resistance Chart

Solvent	% conc	FIBAROLL	FIBAROLL
		VECR	ISO
		Temp °C	Temp °C
Insecticides		49	NT
Iodine, Crystals	100	65	RT
Iodine, Vapour	100	82	NT
Iron Plating Solution	100	121	NT
45% FeCl2; 15% CaCl2; 20%			
FeSO4; 11% (NH4) 2SO4			
Iron and Steel Cleaning Bath,		99	NT
9% Hydrochloric; 23% Sulphuric			
Isoamyl Alcohol	100	49	40
Isobutyl Alcohol	100	4960	
Isodecanol		49	NT
Isononyl Alcohol	100	65	60
Isooctyl Adipate	100	65	60
Isooctyl Alcohol	100	65	60
Isopropyl Alcohol	All	49	60
Isopropyl Amine	100	49	NR
Isopropyl Myristate	100	110	60
Isopropyl Palmitate	100	110	60
Itaconic Acid	2	49	60
Jet Fuel	100	82	60
Kerosene	100	82	60
Kerosene, Diethylhexyl			
Phosphoric Acid (DEHPA),			
Triocetyl Phosphine Oxide (TOPO)		82	NT
Kraft Recovery Boiler Breeching		177	NT
Lactic Acid	All	99	RT
LASSO Herbicide		49	
Latex		49	NR
Lauroyl Chloride		49	50
Lauroyl Alcohol	100	82	80
Lauryl Chloride	100	99	50
Lauryl Chloride, Crude, Acidic	100	99	NT
Lauryl mercaptan	All	65	80
Lead Acetate	All	110	50
Levulinic Acid	All	110	80
Linseed Oil	100	110	80
Lithium Bromide	Sar'd	121	60
Lithium Carbonate	Sar'd	82	NR
Lithium Chloride	Sar'd	99	60
Lithium Hydroxide	Sar'd	82	NR

## Fibaroll Chemical Resistance Chart

Solvent	% conc	FIBAROLL	FIBAROLL
		VECR	ISO
		Temp °C	Temp °C
Lithium Hypochlorite	All	82	NR
Magnesium Bisulphite	All	82	40
Magnesium Carbonate	All	82	NT
Magnesium Chloride	All	121	60
Magnesium Fluosilicate	All	99	40
Magnesium Hydroxide	100	99	NR
Magnesium Nitrate	All	99	60
Magnesium Sulphate	All	121	60
MAGNIFLOC 500 Series Products		60	NT
MAGNIFLOC 837A Products		65	NT
Maleic Acid	100	121	60
Manganese Chloride		99	60
Manganese Sulphate		99	60
Mercaptoacetic Acid	All	38	NT
Mercuric Chloride	100	99	60
Mercurous Chloride	All	99	60
Mercury	100	121	90
Methyl Alcohol (Methanol)	100	38	NR
Methyl Bromide (Gas)	10	27	NT
Methyl Ethyl Keto	100	21	NR
Methyl Styrene (Alpha)	100	49	NR
Methylene Chloride	100	NR	NR
Milk	100	NT	RT
Mineral Oils	100	121	80
Molasses	100	NT	60
Monochloroacetic Acid	85	NR	RT
Monochlorobenzene	100	38	NR
Monoethanolamine			
(See Ethanolamine)			
Morpholine	100	27	NT
Motor Oil		121	NT
Muriatic Acid (See Hydrochloric Acid)			
Myristic Acid	100	121	60
Naphtha	100	99	50
Naphtha Heavy Aromatic		49	NT
Naphthalene	100	99	NT
Neutralizer & Desmut		65	NT
Nickel Chloride	All	99	60
Nickel Nitrate	All	99	60

## Fibaroll Chemical Resistance Chart

Solvent	% conc	FIBAROLL	FIBAROLL
		VECR	ISO
		Temp °C	Temp °C
Nickel Plating Solution 1			
(11% Nickel Sulphate: 2% Nickel Chloride: 1% Boric Acid)		82	NT
Nickel Plating Solution 2			
(44% Nickel Sulphate: 4% Ammonium Chloride: 4% Boric Acid)		82	NT
Nickel Sulphate	All	99	60
Nitric Acid	5	82	NT
Nitric Acid	20	65	40
Nitric Acid	40	27	RT
Nitric Acid Fumes		82	NT
Nitric/Hydrofluoric Acid	08-May	60	NT
Nitrobenzene	100	38	NR
OAKITE Rust Stripper		82	NT
Octanoic Acid (Caprylic Acid)	100	99	60
Octane		NT	50
Oil, Sour Crude	100	99	80
Oil, Sweet Crude	100	99	80
Oleic Acid	All	93	60
Oleum (Fuming sulphuric)		NR	NR
Olive Oils	100	121	80
Ozone		104	NT
Palmitic Acid	100	121	60
Paper Mill Effluent		NT	40
Peanut Oil	100	NT	80
Pentanedioic Acid (See Gluteric Acid)	50	49	60
Perchloric Acid	10	65	NT
Perchloric Acid	30	38	NT
Perchloric Acid	70	NT	RT
Perchloroethylene	100	49	50
Peroxide Bleach			
aqueous solution containing:			
2% sodium peroxide 96%,			
0.025% epsom salts,			
5.0% sodium silicate 42°Be,			
1.4% sulphuric acid 66°Be		99	RT
Phenol (Carbolic Acid)	5	49	NR

## Fibaroll Chemical Resistance Chart

Solvent	% conc	FIBAROLL	FIBAROLL
		VECR	ISO
		Temp °C	Temp °C
Phenol	88	21	NT
Phenol Formaldehyde Resin	All	49	NT
Phenol Sulphonic Acid	65	27	RT
Phosphoric Acid	85	99	60
Phosphoric Acid	100	99	NR
Phosphoric Acid (Super-phosphoric acid 76% P2O5)	105	99	NT
Phosphoric Acid (Polyphosphoric Acid)	115	99	NT
Phosphoric Acid with Phosphorous Pentoxide, Hydrochloric Acid and Sulphuric Dioxide	FUMES	110	NT
Phosphoric Acid, vapour and condensate	100	121	NT
Phosphoric Acid : Hydrochloric Acid, Sar'd with Cl2	15:09	99	NT
Phosphorous Acid	70	38	RT
Phosphorous Trichloride		NR	NR
Phthalic Acid	All	99	RT
Picric Acid (alcoholic)	10	38	RT
Pine Oil	100	49	80
Plating Chemicals			
Platinum Plating Solution		82	NT
Polyacrylamide		38	NR
Polyethylene Imine	12	65	NT
Polyphosphoric Acid 115% H3PO4		99	NT
Polyvinyl Acetate Adhesives		49	NT
Polyvinyl Alcohol	All	49	60
Polyvinyl Chloride Latex with 35 parts DOP	49	NT	
Potassium Aluminium Sulphate	All	121	50
Potassium Bicarbonate	10	65	NR
Potassium Bicarbonate	50	82	NR
Potassium Bromide	All	49	60
Potassium Carbonate	10	65	NR
Potassium Carbonate	25	65	NR
Potassium Carbonate	50	82	NR
Potassium Chloride	All	99	60
Potassium Dichromate	All	99	60
Potassium Ferricyanide	All	99	60
Potassium Ferrocyanide	All	99	60
Potassium Gold Cyanide	12	38	NT
Potassium Hydroxide	10	65	60
Potassium Hydroxide	25	65	60

## Fibaroll Chemical Resistance Chart

Solvent	% conc	FIBAROLL	FIBAROLL
		VECR	ISO
		Temp °C	Temp °C
Potassium Hydroxide:	2 : 3 : 8 oz/gal	82	NT
Potassium Cyanide: Copper Cyanide			
Potassium Iodide	All	65	60
Potassium Nitrate	All	99	60
Potassium Oxalate	All	NT	60
Potassium Permanganate	All	99	60
Potassium Persulphate	All	99	RT
Potassium Pyrophosphate	60	65	60
Potassium Silicofluoride		38	RT
Potassium Sulphate	All	99	60
Propionic Acid	50	82	60
Propionic Acid	100	38	NT
Propylene Glycol	All	99	60
Pulp Paper Mill Blow Down (Non-Condensable Gases)		121	
Pyridine	100	NR	NR
Quaternary Amine Salts		65	60
Rayon Spin Bath		60	NT
Rayon Spinning	Fumes	60	NT
Recovery Boiler Gases		177	NT
Red Liquor	All	65	NT
Salicylic Acid	100	NT	RT
Salt Brine	30	121	90
Sea Water		99	60
Selenious Acid	All	99	40
Sewage Municipal		NT	60
Silicone Oils or Greases		NT	80
Silver Nitrate	All	99	60
Silver Plating Solution, 4% Silver; 7% Potassium and 5% Sodium Cyanides; 2% Potassium Carbonate		82	
Sodium Acetate	All	99	60
Sodium Alkyl Aryl Sulphonates	All	82	NT
Sodium Aluminate	All	49	NR
Sodium Benzoate	100	82	40
Sodium Bicarbonate	10	82	NR
Sodium Bicarbonate	Sar'd	82	NR
Sodium Bicarbonate: Sodium Carbonate	15:20	82	NT
Sodium Bifluoride	All	NT	40

## Fibaroll Chemical Resistance Chart

Solvent	% conc	FIBAROLL	FIBAROLL
		VECR	ISO
		Temp °C	Temp °C
Sodium Bisulphate	All	99	60
Sodium Bisulphite	Sat'd	99	40
Sodium Borate	Sat'd	99	60
Sodium Bromate	5	65	60
Sodium Bromide	All	99	60
Sodium Carbonate	10	82	NR
Sodium Carbonate	25	82	NR
Sodium Carbonate	32	82	NR
Sodium Carbonate	35	82	NR
Sodium Carbonate:			
Sodium Bicarbonate	20:15	82	NT
Sodium Chlorate	50	99	60
Sodium Chlorate	100	113	60
Sodium Chlorate:			
Sodium Chloride	3.2M : 3.4M	99	NT
Sodium Chloride, pH 10.5, Cl2 Sat'd	Sat'd	93	NT
Sodium Chloride, pH 11, Some Cl2	Sat'd	99	NT
Sodium Chloride:			
Sodium Chlorate	3.4M : 3.2M	99	NT
Sodium Chlorite	10	65	NT
Sodium Chlorite	50	49	NT
Sodium Chromate	50	99	60
Sodium Cyanide	All	99	NR
Sodium Dichromate	100	99	60
Sodium Di-phosphate	100	99	NT
Sodium Dodecylbenzene-sulphonate		71	NT
Sodium Ferricyanide	All	99	60
Sodium Ferrocyanide	All	99	60
Sodium Fluoride	All	82	60
Sodium Fluoro Silicate	All	49	60
Sodium Hexametaphosphate	10	38	60
Sodium Hydrosulphide	All	82	NR
Sodium Hydroxide	5	82	60
Sodium Hydroxide	10	82	60
Sodium Hydroxide	25	82	40
Sodium Hydroxide	50	NR	NR
Sodium Hypochlorite	5.25	82	NT
Sodium Hypochlorite	10	82	NR
Sodium Hypochlorite	18	82	NR
Sodium Hypochlorite,			
5% NaOH Scrubbing Cl2 ClO2		49	
Sodium Lauryl Sulphate	All	71	60
Sodium Mono-phosphate	All	99	60

## Fibaroll Chemical Resistance Chart

Solvent	% conc	FIBAROLL	FIBAROLL
		VECR	ISO
		Temp °C	Temp °C
Sodium Nitrate	All	99	60
Sodium Oxalate	Sat'd	99	60
Sodium Persulphate	20	NT	RT
Sodium Phosphate	10	99	60
Sodium Phosphate Tri	All	99	NT
Sodium Polyacrylate, pH 9-10,5	25	82	NT
Sodium Silicate	All	99	NR
Sodium Sulphate	All	99	60
Sodium Sulphide	All	99	NR
Sodium Sulphite	All	99	40
Sodium Tartrate	All	99	60
Sodium Tetraborate	Sat d	82	60
Sodium Thiocyanate	57	82	60
Sodium Thiosulphate	All	82	60
Sodium Tripolyphosphate	Sat d	99	60
Sodium Xylene Sulphonate	All	71	RT
Solder Plate		65	NT
Solvent Composite : 35% Xylene,		65	NT
35% Kerosene,			
30% di-2 ethyl hexyl, phosphoric acid			
Solvent Extract Solutions		82	NT
4% Trioctylphosphine oxide (TOPO)			
4% Diethyl Hexyl Phosphoric Acid (DEHPA)			
92% Kerosene			
Solvent Extraction Solutions		82	NT
3% Isodecanol			
6% ALAMINE 336			
91 % Kerosene			
Sorbitol Solutions	All	82	60
Sour Crude Oil	100	121	60
Soya Oil	100	99	80
Spearmint Oil		NT	80
Stannic Chloride	All	99	60
Stannous Chloride	All	99	60
Stearic Acid	All	99	90
Styrene	100	49	NR
Styrene Acrylic Emulsion		49	NT
Styrene Butadiene Latex		NT	RT
Succinonitrile, Aqueous		38	60
Sugar Beet, Liquor		82	NT
Sugar, Cane, Liquor & Sweetwater	All	82	NT
Sugar / Sucrose	All	99	60
Sulphamic Acid	10	99	NR



## Fibaroll Chemical Resistance Chart

Solvent	% conc	FIBAROLL	FIBAROLL
		VECR	ISO
		Temp °C	Temp °C
Sulphamic Acid	25	65	NR
Sulphanilic Acid	All	99	NT
Sulphate Process Non-Condensable Gases	121	NT	
Sulphated Detergents		NT	60
Sulphite / Sulphate Liquors (Pulp Mill)		93	40
Sulphonated Detergents	100	82	60
Sulphur Chloride	Fumes	94	NR
Sulphur Dioxide (dry or wet)		121	40
Sulphur Dioxide Burner, Wet Gas		177	40
Sulphur, Molten		149	NT
Sulphur Trioxide		149	NR
Sulphur, Wettable, Fungicide		82	NT
Sulphuric Acid	25	99	40
Sulphuric Acid	70	82	RT
Sulphuric Acid	75	49	NT
Sulphuric Acid	93	NR	NR
Sulphuric Acid, Vapour		177	NT
Sulphuric Acid: Ferrous Sulphate	10 : Sat'd	99	NT
Sulphuric Acid: Phosphoric Acid	10:20	82	
Sulphurous Acid	10	49	40
Superphosphoric Acid	105%	99	NT
Tall Oil Reactor		104	NT
Tall Oil Storage	All	104	NT
Tannic Acid	All	99	60
Tartaric Acid	All	99	60
Tetrachloroethane	100	49	NR
Tetrachloroethylene			
(Perchloroethylene)	100	49	NR
Tetrachloropentane	100	38	NT
Tetrachloropyridine		49	NT
Tetrapotassium Pyrophosphate	60	65	60
Tetrasodium Ethylenedi- aminetetraacetic Acid	All	49	NR
Thermal Oxidizer (HCl Absorption)		82	NT
Thioglycolic Acid			
(Mercaptoacetic Acid)	All	38	NR
Thionyl Chloride		NR	NR
Tin Fluoborate Plating Bath,		99	NT
18% Stannous Fluoborate:			
7% Tin, 9% Fluoboric Acid:			
2% Boric Acid			

## Fibaroll Chemical Resistance Chart

Solvent	% conc	FIBAROLL	FIBAROLL
		VECR	ISO
		Temp °C	Temp °C
Tobias Acid			
(2-naphthylamine -1 -sulphonic)	All	99	NT
Toluene	100	49	NR
Toluene Sulphonic Acid	All	99	RT
Transformer Oils		149	NR
Tributyl Phosphate	100	60	RT
Trichloroacetic Acid	50	99	RT
Trichloroethane	100	49	NR
Trichloroethylene	100	NR	NR
Trichloromonofluoromethane	100	38	NR
2, 4, 5 Trichlorophenoxyacetic Acid (Acid, Salts, Esters and Formulations)		65	NT
Tricresyl Phosphate	100	71	60
Triethanolamine	100	49	RT
Triethylamine	All	49	NR
Triethylene Glycol	100	82	NT
Trimethylene Chlorobromide		NR	NT
Trioctyl phosphine oxide, diethyl hexyl phosphoric acid; kerosene 4/4/92		82	NT
Tripropylene Glycol	100	65	NT
Trisodium Phosphate	All	121	60
TRITON X-100 Wetting Agent		38	NT
Turpentine	100	99	40
TWEEN Surfactant	All	82	NT
TYDEX 12 Flocculant	12	65	NT
ULTRAWET Surfactants	All	65	NT
URAN Fertilizer Urea - Ammonium			
Nitrate Composition:			
44.3% Ammonium Nitrate 35.4% Urea			
20.3% Water			
Uranium Extraction		82	NT
Urea	50	65	60
Urea: Ammonium Nitrate: Water	35:44:20	NR	NT
Urine Sugar		116	NT
Vegetable Oils		NT	80
VERSENE Chelating Agents		49	NT
VIDDEN D Fumigant		27	NT
Vinegar	100	99	60
Vinyl Toluene	100	49	NR
VORANOL P-400 Polyol	100	49	NT

# Fibaroll Chemical Resistance Chart

Solvent	% conc	FIBAROLL	FIBAROLL
		VECR	ISO
		Temp °C	Temp °C
Waste, Organic, H2O, HCl, Cl2 Vapours		82	NT
Water, 50 ppm Phenol		49	NT
Water, Deionised / Distilled	100	82	60
Water, Sea, desalination	1.75 x		
pH 7.5	Normal	82	60
Water, Sea, desalination	2.75 x		
pH 7.5	Normal	82	60
Water, Steam Condensate	100	82	NT
White Liquor (Pulp Mill)		82	
Xylene	100	49	NR
Zinc Chloride	70	154	60
Zinc Cyanide		82	NT
Zinc Cyanide Plating Bath,			
9% Zinc and 4% Sodium Cyanides,			
9% Sodium Hydroxide		82	NT
Zinc Electrolyte		65	NT
Zinc Fluoborate Plating Bath,			
49% Zinc Fluoborate;			
5% Ammonium Chloride			
6% Ammonium Fluoborate		93	NT
Zinc Nitrate	All	121	60
Zinc Sulphate	All	121	60