

The following details are non-binding guide values to determine chemical resistance.  
If in doubt, please ask your consultant.

## RectuChem (PVDF) chemical resistance

1 = resistant

2 = limited resistance

3 = not resistant

Chemicals	Temperature					
	20°C	50°C	70°C	100°C	110°C	120°C
Acetaldehyde	3					
Acetanhydride	3	3	3			
Acetic acid (100%)	1	1	2	3	3	
Acetic acid (50%)	1	1	1	1	1	
Acetic acid (80%)	1	1	1	1		
Acetone	3	3				
Acetone (50% water)	2	2	3			
Acetone nitrile	1	1	2			
Acetophenone	1	2	3	3		
Acetyl acetone	3			3		
Acetyl chloride	3	3				
Acryl nitrile	1	2				
Adipic acid, diluted	1	1	1			
Allyl chloride	1	1	1	1		
Aluminium chloride	1	1	1	1	1	1
Aluminium chloride (50%)	1	1	1			
Aluminium fluoride	1	1	1	1	1	1
Aluminium fluoride (50%)	1	1	1			
Aluminium hydroxide	1	1	1	1	1	1
Aluminium nitrate	1	1	1	1	1	1
Aluminium nitrate (50%)	1	1	1			
Aluminium potassium sulphate	1	1	1	1	1	1
Aluminium sulphate	1	1	1			
Ammonia (30%)	1	1	1	1		
Ammonia, anhydrous	1	1	1	1	1	1
Ammonium aluminium sulphate	1	1	1	1	1	1
Ammonium carbonate	1	1	1	1	1	1
Ammonium chloride	1	1	1	1	1	1
Ammonium chloride (50%)	1	1	1	1	1	1
Ammonium fluoride	1	1	1	1	1	1
Ammonium fluoride (20%)	1	1	1	1	1	1
Ammonium hydroxide	1	1	1	1	1	1
Ammonium nitrate	1	1	1	1	1	1
Ammonium nitrate (50%)	1	1	1	1	1	1
Ammonium phosphate	1	1	1	1	1	1
Ammonium phosphate (50%)	1	1	1	1	1	1
Ammonium sulphate	1	1	1	1	1	1
Ammonium sulphate (50%)	1	1	1	1	1	1
Ammonium sulphide	1	1	1	1	1	1
Amyl acetate	1	1	2	3	3	
Amyl alcohol	1	1	1	1	1	1
Amyl chloride	1	1	1	1	1	1
Amyl chloride (50%)	1	1	1	1	1	1
Aniline	1	2	2	3		
Antimony trichloride	1					
Aqua regia			3			
Arsenic acid	1	1	1	1	1	1
Barium carbonate	1	1	1	1	1	1
Barium chloride	1	1	1	1	1	1
Barium hydroxide	1	1	1	1	1	1
Barium sulphide	1	1	1	1	1	1
Benzaldehyde	2	2	3			
Benzene	1	2	2			

Chemicals	Temperature					
	20°C	50°C	70°C	100°C	110°C	120°C
Benzene-sulphonic acid	1	3				
Benzoic acid	1	1	1	1	1	1
Benzoic acid methyl ester	1		3			
Benzyl alcohol	1	1	1	1	1	1
Benzyl chloride	1	2	2	3	3	3
Borax	1	1	1	1	1	1
Boric acid	1	1	1	1	1	1
Bromic acid	1	1	1	1	1	
Bromine water	1	1	1	1		
Bromine, dry	1	1	1			
Butadiene	1	1	1	1		
Butene	1	1	1	1	1	1
Butyl acetate	1	2	3	3		
Butyl acrylate	1	2	3	3		
Butyl glycol	1	1	1	1	1	1
Butyl phenol	1	1	1	1		
Butyric acid	1	1	1	1	1	
Calcium carbonate	1	1	1	1	1	1
Calcium chlorate	1	1	1	1	1	1
Calcium chloride	1	1	1	1	1	1
Calcium disulphate	1	1	1	1	1	1
Calcium hydrogen sulphite	1	1	1	1	1	1
Calcium hydroxide	1	1	1	1	1	1
Calcium hypochlorite	1	1	1	1	1	1
Calcium nitrate (50%)	1	1	1	1		
Calcium nitrate	1	1	1	1	1	1
Calcium sulphate	1	1	1	1	1	1
Capric acid	1	1	1			
Caprylic acid	1	1	1	2		
Carbon dioxide, wet or dry	1	1	1	1	1	1
Carbon disulphide	1					
Carbon tetrachloride	1	1	1	1	1	1
Caustic soda (10%), Caustic soda (30%)	1	1	1	1		
Caustic soda (50%)	1	1	1	3		
Chlorine (50%)	1	1	1	1		
Chlorine dioxine (15%)	1	1	1			
Chlorine, dry	1	1	1	1		
Chlorine, wet	1	1	1	1		
(Mono-)chloroacetic acid (50%)	1	1	1	1		
(Mono-)chloroacetic acid (100%)	1	1	1	1		
Chlorobenzene	1	1	1	2		
Chlorodifluoromethane	1	1	1	1		
Chloroform	1	1	1	1		
Chlorosulphonic acid	1	1				
Chromic acid (50%)	1	1	2			
Chromyl chloride	1	1				
Citric acid (50%)	1	1	1	1	1	1
Coconut oil	1	1	1	1	1	1
Coke oven gas	1	1	1	1	1	1
Copper chloride	1	1	1	1	1	1
Copper cyanide	1	1	1	1	1	1
Copper fluoride	1	1	1	1	1	1
Copper nitrate	1	1	1	1	1	1

Chemicals	Temperature					
	20°C	50°C	70°C	100°C	110°C	120°C
Copper sulphate	1	1	1	1		
Corn oil	1	1	1	1	1	1
Credonaldehyde	1	1	1	1	1	1
Crude oil	1	1	1	1	1	1
Cyclohexane	1	1	1	1	1	1
Cyclohexanol	1	1	1	2		
Cyclohexanone	1	3	3	3		
Dextrine	1	1	1	1	1	
Diacetone alcohol	1	2	3	3		
Dichlorodiflourmethane	1	1	1	1		
Diesel fuel	1	1	1	1	1	1
Diethyl ether	1	2				
Diethylamine	1	3	3			
Diethylenetriamine	1	1	2	3		
Diglycolic acid	1					
Diisobutyl ketone	1	1	1	1		
Diisopropyl ether	1	1				
Dimethyl amine	3	3	3	3		
Dimethyl aniline	1	2	3	3	3	
Dimethyl formamide			3			
Dimethyl phthalate	1	2	3	3		
1, 4-Dioxane	3	3	3			
Epichlorohydrine	3	3				
Ethyl acetate	1	2	3	3		
Ethyl acrylate	1	2	3	3		
Ethyl alcohol	1	1	1	1	1	1
Ethyl chloride	1	1	1	1	1	1
Ethylene bromide (1,2-Dibromoethane)	1	1	1	1	1	1
Ethylene chloride (1,2-Dichloroethane)	1	1	1	1	1	1
Ethylene chlorohydrine	1	2	3	3		
Ethylene diamine	3	3				
Ethylene glycol	1	1	1	1	1	1
Ethylene oxide	1	1				
Fats (triglycerides of long or medium chain fatty acids)	1	1	1	1		
Fatty acids (long chain)	1	1	1	1	1	1
Fatty acids (medium chain)	1	1	1			
Fluoric acid (70%), hydrogen fluoride (100%)	1	1	1	1		
Fluoric acid (hydrogen fluoride) (35%)	1	1	1	1	1	1
Fluorine	1					
Formaldehyde (37%, Formalin, Wz)	1	1				
Formic acid	1	1	1	1	1	1
Fuel oil (EL)	1	1	1	1	1	1
Furane	3	3				
Furfural	2	3	3	3		
Gallic acid	1	2				
Gear oil ARAL Energol HL 32	1	1				
Gear oil ARAL Montanol GM 220	1	1	1			
Gear oil BP Energol H-PC 220	1	1	1			
Gear oil Shell Tellus oil 32	1	1	1			
Gear oil Shell Tonna oil T 220	1	1	1			
Glucose	1	3				
Glycerin	1	1	1	1	1	1
1, 2-Glycol	1	2	2	3	3	3
Glycolic acid (hydroxyacetic acid)	1	1	1	1	1	1
Heptane	1	1	1	1	1	1
Hexamethyldisilazane (HMDS)	1	1	1	1	1	1
Hexane	1	1	1			
Hydrazine UDMH 50/50	1	1	1	1	1	
Hydrobromic acid	1	1	1	1	1	1
Hydrochloric acid (20%) hydrochloric acid (conc.)	1	1	1	1	1	1

Chemicals	Temperature					
	20°C	50°C	70°C	100°C	110°C	120°C
Hydrochloric acid (gaseous)	1	1	1	1	1	1
Hydrogen	1	1	1	1	1	1
Hydrogen cyanide	1	1	1	1	1	1
Hydrogen peroxide (30%)	1	1	1	1	1	1
Hydrogen peroxide (90%)	1					
Hydrogen phosphide	1	1				
Hydrogen sulphide, wet or dry	1	1	1	1	1	1
Hydroiodic acid (48% + 12%J2)	1	1	1	1	1	1
Hypochlorous acid	1	1	1	1	1	1
Iodine, wet; Iodine, dry	1	1	1	1	1	1
Iodoform	1	1	1	1		
Iron (II) chloride	1	1	1	1	1	1
Iron (II) nitrate, Iron (III) nitrate	1	1	1	1	1	1
Iron (II) sulphate, Iron (III) sulphate	1	1	1	1	1	1
Iron (III) chloride (50%)	1	1	1	1	1	1
Iron (III) sulphate (50%)	1	1	1	1		
Isooctane	1	1	1	1		
Jet fuel IP4 and IP5	1	1	1	1		
Kerosine	1	1	1	1		
Lactic acid	1	2	3	3		
Lauric acid	1	1	1	1	1	1
Lauryl chloride	1	1	1			
Lead acetate	1	1	1	1	1	1
Lead tetraethyl	1	1	1	1	1	1
Linoleic acid	1	1	1	1		
Linseed oil	1	1	1	2		
Magnesium carbonate	1	1	1	1		
Magnesium chloride	1	1	1	1		
Magnesium hydroxide	1	1	1	2		
Magnesium nitrate	1	1	1	1		
Magnesium sulphate	1	1	1			
Maleic acid	1	1	1	1		
Mercuric chloride	1	1	1	1	1	1
Mercuric cyanide	1	1	1	1	1	1
Mercuric nitrate	1	1	1	1	1	1
Mercury	1	1	1	1	1	1
Methane	1	1	1	1		
Methane sulphonic acid (50%)	1	1	1	1		
Methyl alcohol	1	1				
Methyl bromide	1	1	1	1	1	1
Methyl chloride	1	1	2			
Methyl ethyl ketone	3	3	3	3		
Methyl isobutyl ketone	1	2	3	3		
Methylene chloride	2	2				
Milk	1	1	1	1		
Mineral oil	1	1	1	1	1	
Mineral oil	1	1	1	1	1	1
Monoethanolamine	3	3				
Morpholine	2	3	3			
N, N-Dimethyl acetamide			3			
Naphtha	1	1	1	1	1	1
Naphthalene	1	1	1	2		
Natural gas	1	1	1	1	1	1
n-Butanol	1	1	1	1	1	1
n-Butyl amine	3	3				
n-Butyl bromide	1	1	1	1	1	1
n-Butyl chloride	1	1	1	1	1	1
n-Butyl mercaptane	1	1	1	1	1	1
Nickel chloride	1	1	1	1	1	1
Nickel nitrate	1	1	1	1	1	1

Chemicals	Temperature					
	20°C	50°C	70°C	100°C	110°C	120°C
Nickel sulphate	1	1	1	1	1	1
Nicotine	1	2	2			
Nicotinic acid	1	1	1	1	1	1
Nitrating acid	1	1	2			
Nitric acid (15%), Nitric acid (30%)	1	1	1	1		
Nitric acid (65%)	1	1	1			
Nitric acid (fuming)	2	2				
Nitrobenzene	1	2	3			
Nitrogen dioxide	1	1	1	1		
Nitromethane	2	3				
Nitrous acid	1	1	1	1		
N-Methylpyrrolidone			3			
Octane	1	1	1	1	1	1
Octene	1	1	1	1	1	1
o-Dichlorobenzene						
Oil (triglyceride)	1	1	1	1		
Oleic acid	1	1	1	1	1	1
Oleum	3					
Oxalic acid	1	1	2	3		
Oxygen	1	1	1	1	1	1
Ozone	1	1	1	1	1	1
Palmitic acid	1	1	1	1	1	1
Paraldehyde	1	1	1			
Perchloroethylene	1	1	1	1	1	1
Perchloric acid (10%)	1	1	1	1		
Perchloric acid (72%)	1	1				
Petrol (leaded)	1	1	1	1	1	1
Petrol (unleaded)	1	1	1	1	1	1
Phenol (10%)	1	1	1	1		
Phenol (100%)	1	1	1	2		
Phenylhydrazine	1	1				
Phosphoric acid (30%)	1	1	1	1	1	1
Phosphoric acid (85%)	1	1	1	1	1	
Phosphorous pentoxide	1	1	1	1		
Phosphorous trichloride	1	1	1	1		
Phthalic acid	1	1	1	1		
Picric acid	1					
Potassium bromide	1	1	1	1	1	1
Potassium carbonate	1	1	1	1	1	1
Potassium chlorate	1	1	1	1	1	
Potassium chloride	1	2	3	3		
Potassium cyanide	1	2	3	3		
Potassium dichromate	3	3				
Potassium hydroxide	1	2	2	3		
Potassium nitrate	1	1	1	1	1	1
Potassium permanganate	1	1	1	1	1	1
Potassium sulphate	1	1	1	1	1	1
Potassium sulphide	1	1	1	1	1	1
Potassium terrocyanide	3	3				
Propane	1	1	1	1	1	1
Propanol	1	1	2	3		
Propylene carbonate			3			
Propylene oxide	3					
Pyridine	3	3	3			
Pyrogallic acid	1	1				
Salicylic acid	1	1	1	1		
sec-Butanol	1	1	1	1	1	1
sec-Butyl amine	3	3				
Silicon tetrachloride	1					
Silver cyanide	1	1	1	1	1	1

Chemicals	Temperature					
	20°C	50°C	70°C	100°C	110°C	120°C
Silver nitrate	1	1	1	1	1	1
Sodium acetate	1	1	1	1	1	1
Sodium benzoate	1	1	1	1	1	1
Sodium bicarbonate (Sodium hydrogen carbonate)	1	1	1	1	1	1
Sodium bisulphate (Sodium hydrogen sulphate)	1	1	1	1	1	1
Sodium bisulphite (Sodium hydrogen sulphite)	1	1	1	1	1	1
Sodium bromide	1	1	1	1	1	1
Sodium carbonate	1	1	1	1	1	1
Sodium carbonate (40%)	1	1	1			
Sodium chlorate	1	1	1	1	1	1
Sodium chloride	1	1	1	1	1	1
Sodium cyanide	1	1	1	1	1	1
Sodium fluoride	1	1	1	1	1	1
Sodium hypochloride	1	1	1	1	1	1
Sodium nitrate	1	1	1	1	1	1
Sodium nitrite	1	1	1	1	1	1
Sodium peroxide	1	1	1	1	1	1
Sodium phosphate	1	1	1	1	1	1
Sodium silicate	1	1	1	1	1	1
Sodium sulphate	1	1	1	1	1	1
Sodium sulphide	1	1	1	1	1	1
Sodium sulphite	1	1	1	1	1	1
Sodium thiosulphate	1	1	1	1	1	1
Stearic acid	1	1	1	1	1	1
Sulphur	1	1	1	1	1	1
Sulphur chloride	1					
Sulphur dichloride	1					
Sulphur dioxide	1	1	1	1		
Sulphur trioxide	3	3				
Sulphuric acid (50%)	1	1	1	1	1	
Sulphuric acid (60%)	1	1	1	1		
Sulphuric acid (80%)	1	1	1	1	1	2
Sulphuric acid (95%)	1	1	2	3		
Sulphuric acid (fuming/monohydrate)	3	3				
Sulphurous acid	1	1	1	1		
Synthesis gas	1	1	1	1	1	1
Tall oil	1	1	1	1	1	1
tert-Butanol	1	1	1	1	1	1
tert-Butyl amine	1	2	2	3		
Tetrachloroethylene	1	1	1	2		
Tetrahydrofuran	2	3				
Tetramethyl ammonium hydroxide (50%)	1	1	1	1		
Thionyl chloride	1	2				
Titanium tetrachloride	1	1				
Toluol	1	1	1	2		
Tributyl phosphate	1	1	1	1		
Trichloroacetic acid	1	2	3	3		
1.1.1-Trichloroethane	1	1	2			
Trichloroethylene	1	1	1	1	1	1
Trichlorofluoromethane	1	1	1	1		
Triethyl amine	1	1	2	3		
Urea (50%)	1	1	1	1	1	1
Vinyl acetate	1	1	1	1	1	1
Water, seawater	1	1	1	1	1	1
Xylol	1	1	1			
y-Butyrol acetone			3			
Zinc chloride (50%)	1	1	1	1	1	1
Zinc nitrate (50%)	1	1	1	1	1	1
Zinc sulphate (50%)	1	1	1	1	1	1