

# Chemical resistance chart

RESISTANCE INFORMATION

P1

ISSUE 1 — JULY 2018

Key	
	No Data
-	Not recommended
0	Conditionally Resistant
+	Resistant

Chemical	Concentration	Material °C																			
		PVCu			ABS			PE			Polypropylene			EPDM			FPM				
		20	40	60	20	40	60	20	40	60	20	60	100	20	40	60	20	60	100	120	
Acetaldehyde	40% aqueous solution	0	-		-			+	+	0	+	0	0	+	0	0	+	0			
Acetaldehyde	Technically pure	-			-			+	0		0	-		+	0	-	0	-			
Acetic acid	50% Aqueous	+	+	0	-			+	+	+	+	+	+	+	0		0				
Acetic acid	Technically pure, glacial	0	-		-			+	+	0	+	+	0	+	0		-				
Acetic acid anhydride	Technically pure	-			-			+	0		+			0			-				
Acetic acid ethylester		-			-			+			+			+			0				
Acetic acid isobutyl ester	Technically pure	-			-			+			+			+			-				
Acetone	up to 10% aqueous	-			0			+	+	+	+	+	+	+	+	+	0	-			
Acetone	Technically pure	-			-			+	+	+	+	+		+	+	+	-				
Acetonitrile	100%	-			-			0			0			0			-				
Acetophenone	100%	-			-			0			0			+			-				
Acrylic acid methyl ester	Technically pure	-			-			0			-			0							
Acrylicethyl	Technically pure	-			-			0			-			0			-				
Acrylonitrile	Technically pure	-			-			+	+	+	+			+	+	0	0	-			
Adipic acid	Saturated, aqueous	+	+	-	-			+	+	+	+	+		+	+	+	+	+			
Allyl alcohol	96%	0	-		-			+	+	+	+	0		+	+	0	0				
Ammonia	Gaseous, technically pure	+	+	+	-			+	+	+	+	+		+			+				
Ammonium acetate	Aqueous, all	+	+	0	0			+	+	+	+	+	+	+	+	+	+	+			
Ammonium persulphate		+	+	0				+			0			+			+				
Amonium salts, aqueous inorganic	Saturated	+	+	+				+	+	+	+	+		+	+	+	+	+			
Amyl acetate	Technically pure	-			-			+	+	+	0	-		0			-				
Amyl alcohol	Technically pure	+	+	0	-			+	+	+	+	+		+	+	+	0				

# Chemical resistance chart

RESISTANCE INFORMATION

P2

ISSUE 1 — JULY 2018

Key	
	No Data
-	Not recommended
0	Conditionally Resistant
+	Resistant

Chemical	Concentration	Material °C																			
		PVCu			ABS			PE			Polypropylene			EPDM			FPM				
		20	40	60	20	40	60	20	40	60	20	60	100	20	40	60	20	60	100	120	
Aniline	Technically pure	-			-			+	0		+	0		+	+	+	0	0			
Antimony trichloride	90% aqueous	+	+		-			+	+	+	+	+		+			+				
Aqua regia	Mixing ratio	+	0		-			-			-			-			0				
Arsenic acid	80% aqueous	+	+	0	+	+	+	+	+	+	+	+		+	+	+	+	+	+		
Barium salts, aqueous inorganic	Saturated	+	+	+	+			+	+	+	+	+		+	+	+	+	+	+		
Beer	Usual commercial	+			+			+			+						+				
Benzaldehyde	Saturated, aqueous	-			-			+	+	0	+			+	+	0	+	+			
Benzene	Technically pure	-			-			0	0		0			-			+				
Benzene sulfonic acid	Technically pure	+						+	+	0	+	0		+	+	0	+				
Benzine (Gasoline)	Free of lead and aromatic compounds	+	+		-			+	+		0			-			+				
Benzoic acid	Aqueous, all	+	+	0	+	+		+	+	+	+	+	+	+	+		+	+	0		
Benzyl alcohol	Technically pure	0			-			+	+	0	+	0		+	+	0	+				
Beryllium salts, aqueous, inorganic		+	+	+				+	+	+	+	+		+	+	+	+	+			
Borax	Aqueous, all	+	+	0	+	+		+	+	+	+	+	+	+	+	+	+	+			
Boric acid	All, aqueous	+	+	0	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+		
Bromine water	Saturated, aqueous	+			-			-			-			-			+				
Butadiene	Technically pure	+			-			0			0			-			+				
Butane	Technically pure	+			+			+			+			-			+				
Butanediol	Aqueous 10%	+	0		-			+	+	+	+	+		+	+	+	+	+			
Butanol	Technically pure	+	+	0	-			+	+	+	+	0		+	+	+	+	-			
Butyl acetate	Technically pure	-			-			+			0			+	-		0				
Butyl phenol p-tertiary	Technically pure	0	-		-			0			+			-			0				

# Chemical resistance chart

RESISTANCE INFORMATION

P3

ISSUE 1 — JULY 2018

Key	
	No Data
-	Not recommended
0	Conditionally Resistant
+	Resistant

Chemical	Concentration	Material °C																			
		PVCu			ABS			PE			Polypropylene			EPDM			FPM				
		20	40	60	20	40	60	20	40	60	20	60	100	20	40	60	20	60	100	120	
Butylene glycol	Technically pure	+	+	0				+	+	+	+	+		+	+	+	+	0			
Butylene liquid	Technically pure	+						-			-			0			+				
Butyric acid	Technically pure	+			-			+			+			0			0				
Cadmium salts aqueous inorganic	< Saturated acid	+	+	+				+	+	+	+	+		+	+	+	+	+			
Caesium salts, aqueous, inorganic	<Saturated acid	+	+	+				+	+	+	+	+		+	+	+	+	+			
Calcium acetate	Saturated	+	+	+				+	+	+	+	+		+	+	+	+	+			
Calcium hydroxide	Saturated aqueous	+	+	+				+	+	+	+	+		+	+	+	+	+	+		
Calcium lactate	Saturated	+	+					+	+	+	+	+		+	+	+	+	+			
Calcium salts, aqueous, inorganic	Saturated acid	+	+	+	+	+		+	+	+	+	+		+	+	+	+	+			
Carbon dioxide	Technically pure, anhydrous	+	+	+				+	+	+	+	+		+	+	+	+	+			
Carbon tetrachloride	Technically pure	-			-			-			-			-			+				
Carbonic acid		+	+	+				+	+	+	+	+		+	+	+	+	+			
Caro's acid		+															+				
Caustic potash solution (potassium hydroxide)	50% aqueous	+	+	0				+	+	+	+	0		+	+	+	-				
Caustic soda solution	50% Aqueous	+	+	+				+	+	+	+	0		+	+	+	-				
Chloric acid	10% aqueous	+	+	0	-			+	+		-			+	+	+	+	+			
Chloric acid	20% aqueous	+	+	0	-			0			-			0	0		+	+			
Chlorine	moist, 97%, gaseous	-			-			-			-			-			+				

# Chemical resistance chart

RESISTANCE INFORMATION

P4

ISSUE 1 — JULY 2018

Key	
	No Data
-	Not recommended
0	Conditionally Resistant
+	Resistant

Chemical	Concentration	Material °C																			
		PVCu			ABS			PE			Polypropylene			EPDM			FPM				
		20	40	60	20	40	60	20	40	60	20	60	100	20	40	60	20	60	100	120	
Chlorine	Liquid, technically pure, as double pipe system	-			-						-			-			0				
Chlorine	Anhydrous, technically pure, as double pipe system	-			-			0	0		-			0			+				
Chlorine water	saturated	+	+	0	0			0	0		0			0			+				
Chloroacetic acid, mono	50% Aqueous	+	+		-			+	+	0	+	0		0			-				
Chloroacetic acid, mono	Technically pure	+	+	0	-			+	+	0	+	0		0			-				
Chlorobenzene	Technically pure	-			-			0			0			-			-				
Chloroethanol	Technically pure	-			-			+	+	+	+	+		0			-				
Chlorosulphonic acid	Technically pure	0			-			-			-			-			-				
Chromic acid	All, aqueous	0	0		-			0			0						+	0			
Chromic acid + water + sulphuric acid	50g 15g 35g	+	+	0	-			-			-			0	0		+				
Chromium (II)- salts, aqueous, inorganic	≤Saturated acid	+	+	+																	
Compressed air, containing oil		-			-			+	+		0			-			+				
Copper salts, aqueous inorganic	≤Saturated acid	+	+	0	+	+	+	+	+	+	+	+		+	+		+	+			
Cresol	Cold saturated, aqueous	0			-			+	+	0	+			0			+				
Crotonic aldehyde	Technically pure	-			-			+			+			+			+				

# Chemical resistance chart

RESISTANCE INFORMATION

P5

ISSUE 1 — JULY 2018

Key	
	No Data
-	Not recommended
0	Conditionally Resistant
+	Resistant

Chemical	Concentration	Material °C																			
		PVCu			ABS			PE			Polypropylene			EPDM			FPM				
		20	40	60	20	40	60	20	40	60	20	60	100	20	40	60	20	60	100	120	
Cyclohexane	Technically pure	-			-			+	+	+	+			-			+				
Cyclohexanol	Technically pure	+	+	+	-			+	+	+	+	0		-			+				
Cyclohexanone	Technically pure	-			-			+	0	0	+	0		0			-				
Dextrine	Usual commercial	+	+	+	+	+	+	+	+	+	+			+	+	+	+	+			
Di isobutyl ketone	Technically pure	-			-			+	0		+			0	0		-				
Dibromobenzene	≤Saturated acid	-			-			0			0			0			+				
Dibutyl ether	Technically pure	-			-			0			0			-			+				
Dibutyl phthalate	Technically pure	-			-			+	0	0	+	0		0			0				
Dichloroacetic acid	50% Aqueous	+	+	0	-			+	+	0	+	0		+	+	+	0	-			
Dichloroacetic acid	Technically pure	+	+	0	-			+	+	0	+	0		+	+	+	0				
Dichloroacetic acid methyl ester	Technically pure	-			-			+	+	+	+	+		+	+	0	-				
Dichlorobenzene	Technically pure	-			-			0			0			0			+				
Dichloroethylene	Technically pure	-			-			-			-			-			0				
Diesel oil		+	+		-			+			0			-			+				
Diethyl ether		-			-			-			-			-			-				
Diethylamine	Technically pure				-			+			+			0			-				
Dimethyl formamide	Technically pure	-			-			+	+	0	+	+		0			-				
Dimethylamine	Technically pure	-			-			+			-			0			-				
Dioxane	Technically pure	-			-			+	+	+	0	0		0			-				
Ethanolamine	Technically pure	-			-			+			+			+			0				
Ethyl alcohol (Ethnause)	Technically pure 96%	+	+	0	-			+	+	+	+	+		+	+	+	+	0			
Ethyl benzene	Technically pure	-			-			0			0			-			+				
Ethyl chloride (G)	Technically pure	-			-			0			0			-			0				

# Chemical resistance chart

RESISTANCE INFORMATION

P6

ISSUE 1 — JULY 2018

Key	
	No Data
-	Not recommended
0	Conditionally Resistant
+	Resistant

Chemical	Concentration	Material °C																				
		PVCu			ABS			PE			Polypropylene			EPDM			FPM					
		20	40	60	20	40	60	20	40	60	20	60	100	20	40	60	20	60	100	120		
Ethyl ether	Technically pure	-			-			+			0			-			-					
Ethylene diamine	Technically pure	0			-			+	+	+	+	+		+			0	-				
Ethylene glycol	<50%	+	+	+	0	0		+	+	+	+	+		+	+	+	+	+				
Ethylene glycol	Technically pure	+	+	+	-			+	+	+	+	+		+	+	+	+	+				
Ethylenediamine-tetraacetic acid (EDTA)								+			+			+								
Fluorine	Technically pure	-			-			-			-			-			-					
Fluorosilicic acid	32% aqueous	+	+	+				+	+	+	+	+		+			0					
Formaldehyde	40% aqueous	+	+					+	+	+	+			+	+	+	+	+				
Formamide	Technically pure	-			-			+	+	+	+	+		+			0					
Formic acid	≤25%	+	+	+				+	+	+	+	+		+	+	+						
Formic acid	up to 50% aqueous	+	+	0	0			+	+	+	+	0		+	+	0	+	0				
Formic acid	Technically pure	+	0	-	-			+	+	+	+	-		+	+	0	+					
Frigen 12 (freon 12)	Technically pure	+			-			-			-			0			0					
Fuel oil		+	+		-			+			0			-			+					
Furfuryl alcohol	Technically pure	-			-			+	+	+	+	0		0			-					
Gelatin	All, aqueous	+	+		+	+	+	+	+	+	+	+		+	+		+					
Glucose	All, aqueous	+	+	0				+	+	+	+	+		+	+	+	+	+	+			
Glycerol	Technically pure	+	+	+				+	+	+	+	+	+	+	0	0	+	0				
Glycin	10% aqueous	+	+		+	+		+	+		+						+					
Glycolic acid	37% aqueous	+						+	+	+	+						+					
Heptane	Technically pure	+	+		-			+	+		0			-			+					
Hexane	Technically pure	+	+		-			+	+		0			-			+					
Hydrazine hydrate	aqueous	+			-			+	+	+	+	+		+			0					

# Chemical resistance chart

RESISTANCE INFORMATION

P7

ISSUE 1 — JULY 2018

Key	
	No Data
-	Not recommended
0	Conditionally Resistant
+	Resistant

Chemical	Concentration	Material °C																			
		PVCu			ABS			PE			Polypropylene			EPDM			FPM				
		20	40	60	20	40	60	20	40	60	20	60	100	20	40	60	20	60	100	120	
Hydrochloric acid	up to 30% aqueous	+	+	0				+	+	+	+	0		+	+	0	+	0			
Hydrochloric acid	38% aqueous	+	+	0	-			+	+		0			+	0		+				
Hydrocyanic acid	Technically pure	+	+	0	-			+	+	+	+	+		+	0		+				
Hydrofluoric acid	40%	+	0	0	-			+	+	0	+	+		-			+	0			
Hydrogen	Technically pure	+	+	+	+	+	+	+	+	+	+	+	-	+	+	+	+	+	+		
Hydrogen chloride	Technically pure, gaseous	+	+	0	-			+	+	+	+	+		+	+	+	+	+			
Hydrogen peroxide	30% aqueous	+			-			+			+			0			+				
Hydrogen peroxide	90% aqueous	+			-			0						-			0				
Hydrogen sulphide	Saturated aqueous	+	+	0				+	+	+	+	+		+	-		+	+			
Hydrogen sulphide	Technically pure	+	+	+				+	+	0	+	+		+	-		+	0			
Hydroquinone	30%	+	+					+	+	+	+	+		+							
Iodine-potassium iodide solution (Lugol's solution)		+			-			+			+			+			+				
Iron salts, aqueous inorganic	≤Saturated acid	+	+	+	+			+	+	+	+	+		+	+	+	+	+	+		
Isooctane	Technically pure	+			-			+			+						+				
Isopropyl alcohol (ESC)	Technically pure	+	+	0				+	+	0	+	0		+	+		+				
Isopropyl ether	Technically pure	-			-			0			0			0			-				
Lactic acid	10% aqueous	+	0	-	+	0	-	+	+	+	+	+		+	+	0	+	0			
Lead acetate	aqueous saturated	+	+	+	+	+	+	+	+	+	+	+		+	+	+	+	+			
Lead salts, aqueous, inorganic	≤Saturated acid	+	+	+				+	+	+	+	+		+	+	+	+	+			
Linseed oil	Technically pure	+	+	0				+	+	+	+	+	+	+	+	+	+	+			

# Chemical resistance chart

RESISTANCE INFORMATION

P8

ISSUE 1 — JULY 2018

Key	
	No Data
-	Not recommended
0	Conditionally Resistant
+	Resistant

Chemical	Concentration	Material °C																			
		PVCu			ABS			PE			Polypropylene			EPDM			FPM				
		20	40	60	20	40	60	20	40	60	20	60	100	20	40	60	20	60	100	120	
Lithium salts, aqueous, inorganic	≤Saturated acid	+	+	+				+	+	+	+	+		+	+	+	+	+			
Magnesium salts, aqueous, inorganic	≤Saturated acid	+	+	0				+	+	+	+	+	+	+	+	+	+	+	+		
Maleic acid	Cold saturated, aqueous	+	+	0				+	+	+	+	+		+	+	+	+	+			
Mercury	pure	+	+	+	+			+	+	+	+	+		+	+	+	+	+			
Mercury salts	≤Saturated	+	+	0				+	+	+	+	+		+	+	+	+	+			
Methane (natural gas)	Technically pure	+			+			+			+						+				
Methanol	All	+	+	0	-			+	+	+	+	+		+	+	+	0	0			
Methyl acetate	Technically pure	-			-			+			+			+			-				
Methyl amine	32%, aqueous	0			-			+			+			+			-				
Methyl bromide	Technically pure	-			-			0			-			-			0				
Methyl ethyl ketone	Technically pure	-			-			+			+			+			-				
Methyl isobutyl ketone		-			-			+			+			+			-				
Methyl methacrylate		-			-			+			+			+			-				
Methyl phenyl ketone (acetophenon)		-			-			+			+			+			-				
Milk		+	+	+	+	+	+	+	+	+	+	+	+				+				
Mineral water		+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	
mixed acids -nitric 15% -hydrofluoric 15% -sulphuric 18%	3 parts 1 part 2 parts	0			-			0			-			-			+				



# Chemical resistance chart

RESISTANCE INFORMATION

P9

ISSUE 1 — JULY 2018

Key	
	No Data
-	Not recommended
0	Conditionally Resistant
+	Resistant

Chemical	Concentration	Material °C																					
		PVCu			ABS			PE			Polypropylene			EPDM			FPM						
		20	40	60	20	40	60	20	40	60	20	60	100	20	40	60	20	60	100	120			
mixed acids -sulphuric -nitric -water	10 % 20 % 70 %	+	+	+	-						+			-			-			+	+		
mixed acids -sulphuric -nitric -water	50 % 33 % 17 %	+	0		-						-			-			-			+			
mixed acids -sulphuric -nitric -water	50 % 31 % 19 %	+			-						-			-			-			+			
mixed acids -sulphuric -phosphoric -water	30 % 60 % 10 %	+	+		-			+	+	+	+	+		+	+	+	+	+	+	+	+		
N,N-Dimethylaniline	Technically pure	-			-			+			+			+									
N, methylpyrrolidon		-			-			+			+			+			0						
Naphthalene	Technically pure	-						+			+			-			+						
Nickel salts, aqueous in organic	≤saturated acid	+	+	0				+	+	+	+	+		+	+	+	+	+		+	+		
Nitrating acid -sulphuric acid -nitric acid -water	65 % 20 % 15 %	+	0								-			-			-			+			

# Chemical resistance chart

RESISTANCE INFORMATION

P10

ISSUE 1 — JULY 2018

Key	
	No Data
-	Not recommended
0	Conditionally Resistant
+	Resistant

Chemical	Concentration	Material °C																			
		PVCu			ABS			PE			Polypropylene			EPDM			FPM				
		20	40	60	20	40	60	20	40	60	20	60	100	20	40	60	20	60	100	120	
Nitric acid	6.3% aqueous	+	+	+	-			+	+	+	+	0		+	0		+	+			
Nitric acid	≤25%	+	+	+	-			+	+	0	+			+			+				
Nitric acid	65% aqueous	0	0	-	-			0	-		-			-			+	-			
Nitric acid	85%	-			-			-			-			-			-				
Nitric acid	100%	-			-			-			-			-			-				
Nitrobenzene	Technically pure	-			-			+			+			0			+				
Nitrotoluene (o-, m-, p-)	Technically pure	-			-			+	0		0			-			0				
Nitrous acid		+	+		-			+			-			+			+				
Nitrous gases (nitric oxide)	diluted, moist, anhydrous	+			-			0			0			0			+				
Oleic acid	Technically pure	+	+	+	-			+	+	0	+	0		-			+	-			
Oleum	10% SO3	-			-			-			-			-			-				
Olive oil		+	+	+	-			+	+	0	+	+		-			+	+			
Oxygen	Technically pure	+	+	+				+	+	0	+	0		+	+	+	+	+	+	+	
Ozone	up to 2%, in air	+			-			0			0			0			+				
Ozone	Cold saturated, aqueous	+			-			0			0			-			+				
Palm oil, palm nut oil		+						+			+			-			+				
Paraffin emulsions	usual commercial, aqueous	+						+			+			-			+				
Paraffin oil		+			0			+			+			-			+				
Perchlorid acid	10% aqueous	+						+			+			+			+				
Perchlorid acid	70% aqueous	+			-						-			-			+				
Perchloroethylene (tetrachlorethylene)	Technically pure	-						0			0			-			+	+			

# Chemical resistance chart

RESISTANCE INFORMATION

P11

ISSUE 1 — JULY 2018

Key	
	No Data
-	Not recommended
0	Conditionally Resistant
+	Resistant

Chemical	Concentration	Material °C																				
		PVCu			ABS			PE			Polypropylene			EPDM			FPM					
		20	40	60	20	40	60	20	40	60	20	60	100	20	40	60	20	60	100	120		
Phenol	up to 10%, aqueous	+	0		-						+	+	0	+	+		+	+	0	+	+	
Phenol	Up to 90%, aqueous	0			-						+	+		+	+		-			+	-	
Phosgene	gaseous, technically pure	+	0	0	-						0			0			+			+	0	
Phosgene	Liquid, technically pure	-			-						-			-			-			+		
Phosphoric acid	85%, aqueous	+	+	+							+	+	+	+	+		+	+	0	+	+	0
Phosphoric acid	Upto 95%	+	+		-						+	+		+	+		0			+	0	
Phosphorous chlorides -trichloride -pentachloride -oxichloride	Technically pure	-			-						-			-						-		
Photographic developer	usual commercial	+	+	0	+	+	0	+	+	0	+			+			+	+		+		
Photographic emulsions		+	+		+	+		+	+		+			+			+	+		+		
Photographic fixer	usual commercial	+	+	0	+	+	0	+	+		+			+			+	+		+		
Phthalic acid	saturated, aqueous	+	0	-	-						+	+	+	+	+		+	0		-		
Potassium hydroxide	50%	+	+	+							+	+	+	+	0		+	+	+	-		
Potassium aluminium salts, (alum), aqueous, inorganic	≤saturated acid	+	+	+							+	+	+	+	+		+	+	+			
Potassium persulphate (potassium peroxidsulfate)	All, aqueous	+	+	0							+	+	+	+	+		+	+		+	+	
Potassium hypochlorite		+	0								0			0			+			0		

# Chemical resistance chart

RESISTANCE INFORMATION

P12

ISSUE 1 — JULY 2018

Key	
	No Data
-	Not recommended
0	Conditionally Resistant
+	Resistant

Chemical	Concentration	Material °C																			
		PVCu			ABS			PE			Polypropylene			EPDM			FPM				
		20	40	60	20	40	60	20	40	60	20	60	100	20	40	60	20	60	100	120	
Propane	Technically pure, gaseous	+						0			+							+			
Propane	Technically pure, liquid	+						+			+							+			
Propanol, n- and iso-	Technically pure	+	0	0				+	+	0	+	0		+	+	0	+				
Propionic acid	50% aqueous	+	+	0	-			+	+	+	+	+		+	+		0				
Propionic acid	Technically pure	+	0		-			+	0	0	+	0		+	0		+	+			
Propylene glycol	<50%	+	+	+				+	+	+	+	+		+	+		+	0			
Propylene glycol	Technically pure	+	+	+	+			+	+	+	+	+		+	+	+	+	+			
Pyridine	Technically pure	-			-			+	0	0	0	0		0			-				
Salicylic acid	saturated	+	+	+				+	+	+	+	+		+	+	+	+				
Sea water		+	+	0	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+
Silicic acid		+	+	+				+	+	+	+	+		+	+	+	+				
Silicone oil		+	0	-	+			+	+	+	+	+		+	+	+	+	+			
Silver salts, aqueous, inorganic	≤saturated acid	+	+	+	+			+	+	+	+	+		+	+	+	+	+			
Sodium chlorite	diluted, aqueous	+						0			0			0			+				
Sodium hypochlorite	12.5% active chlorine, aqueous	+	+		-			0	0		0			+	+		0				
Sodium persulphate	cold saturated, aqueous	+	+	0				+	+	+	+	+		+	+		+	+			
Sodium salts, aqueous, inorganic	≤saturated acid	+	+	+				+	+	+	+	+		+	+	+	+	+			
Stannous chloride	cold saturated, aqueous	+	0	0	+	+		+	+	+	+	+		+	0	-	+	+			
Starch solution	All, aqueous	+	+	+	+	+		+	+	+	+	+		+	+	+	+	+			

# Chemical resistance chart

RESISTANCE INFORMATION

P13

ISSUE 1 — JULY 2018

Key	
	No Data
-	Not recommended
0	Conditionally Resistant
+	Resistant

Chemical	Concentration	Material °C																			
		PVCu			ABS			PE			Polypropylene			EPDM			FPM				
		20	40	60	20	40	60	20	40	60	20	60	100	20	40	60	20	60	100	120	
Styrene		-			-												+				
Succinic acid	Aqueous, all	+	+	+	+			+	+	+	+	+		+	+	+	+	+			
Sulfuryl chloride	Technically pure	-			-			-			-						+				
Sulphur dioxide	Technically pure, liquid	-			-			-			-			-			0				
Sulphur dioxide	All, moist	+	+	0	-			+	+	+	+	+		+	0	-	+	-			
Sulphuric acid	saturated aqueous	+	+	0				+	+	+	+	+		+	-		+	0			
Sulphuric acid	Up to 80% aqueous	+	+	+	-			+	+	0	+	0		0	0	-	+	0			
Sulphuric acid	Up to 96% aqueous	+	+	0	-			-			-			-			+	+			
Sulphuric acid	98%	+	0		-			-			-			-			0				
Tannic acid	All, aqueous	+						+	+	+	+	+					+				
Tetrachlorethylene (perchloroethylene)		-			-			-			-			-			+				
Tetrachloroethane	Technically pure	-			-			0			0			-			0				
Tetraethylene lead	Technically pure	+			-			+			+			0			+				
Tetrahydrofurane	Technically pure	-			-			0			0			0			-				
Tin salts, aqueous, inorganic	≤saturated acid	+	+	+				+	+	+	+	+		+	+	+	+	+			
Toluene	Technically pure	-			-			0			0			-			+				
Trichloromethane	100%																+				
Trichloroacetic acid	50% aqueous	+	0		-			+	+	+	+	0		0			-				
Trichloroacetic acid	Technically pure	0			-			+	0	-	+	0		0			-				
Trichloroethane	Technically pure	-			-			0			0			-			+				
Trichloroethylene	Technically pure	-			-			-			0			-			+				

# Chemical resistance chart

RESISTANCE INFORMATION

P14

ISSUE 1 — JULY 2018

Key	
	No Data
-	Not recommended
0	Conditionally Resistant
+	Resistant

Chemical	Concentration	Material °C																			
		PVCu			ABS			PE			Polypropylene			EPDM			FPM				
		20	40	60	20	40	60	20	40	60	20	60	100	20	40	60	20	60	100	120	
Triethylamine	Technically pure	-			-			+			+			-			-				
Trifluoroacetic acid	up to 50%	-			-			+			+			0			-				
Turpentine oil	Technically pure	+	0		-			0	0		-			-			+	+			
Urea	Up to 30% aqueous	+	+	0	+	+		+	+	+	+	+		+	+	+	+	+			
Urine		+	+	0				+	+	+	+	+		+	+	+	+	+			
Vinyl acetate	Technically pure	-			-			+	+		+	0		+			-				
Vinyl chloride	Technically pure	-			-			-			-			-			+				
Waste gases, containing Alkaline		+	+	+				+	+	+	+	+		+	+	+	+	+	-		
Waste gases, containing hydrochloric acid	all	+	+	+				+	+	+	+	0		+	+	+	+	+	+		
Waste gases, containing hydrogen fluoride	Traces	+	+	+				+	+	+	+	+		0	0	0	+	+			
Waste gases, containing nitrous gases	Traces	+	+	+				+	0	0	0	0		+	0	0	+	+	0		
Waste gases, containing sulphur dioxide	Traces	0	+					+	+		+			+	+	+	+	+	+		
Water, drinking, chlorinated	≤0.1ppm Chlorine	+	+	+	+	+	+	+	+	+	+	+	+	+	+	0	+	+	+		
Water -distilled -deionised		+	+	+	+	+	+	+	+	+	+	+	+	+	+	0	+	+	+	+	+
Xylene	Technically pure	-			-			-			-			-			+	-			
Zinc salts, aqueous, inorganic	≤saturated acid	+	+	+	+			+	+	+	+	+		+	+	+	+	+			

# Chemical resistance chart

RESISTANCE INFORMATION

P15

ISSUE 1 — JULY 2018

Key	
	No Data
-	Not recommended
0	Conditionally Resistant
+	Resistant

The information in these tables has been supplied by other reputable sources and is to be used ONLY as a guide in selecting equipment for appropriate chemical compatibility. Before permanent installation, test the equipment with the chemicals and under the specific conditions of your application. Ratings of chemical behaviour listed in this chart apply to a 48-hr exposure period; We have no knowledge of possible effects beyond this period. We do not warrant (neither express or implied) that the information in this chart is accurate or complete or that any material is suitable for any purpose.

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