

Chemical Resistance

Codes

- (A)** Excellent = Recommended
- (B)** Good = Recommended
- (C)** Fair (limited life)
- (X)** Not Recommended

Corrosion resistance data given in this publication are based on laboratory tests conducted by the manufacturers of the materials covered and are indicative only of the conditions under which the tests were made. The information may be considered as a basis for recommendation but not as a guarantee. Materials should be tested in actual service to determine suitability for a particular purpose. Consult Chemline for ratings on other materials not shown in this book such as **Hypalon** or **Neoprene** seals, or **Polyamide** or **Polysulfone** flow meter tubes.

Chemical	Concentration (%)	Temp.		PVC	CPVC	PP	PVDF	TEFLON	VITON	EPDM	NITRILE	
		°C	°F									
Acetic Acid CH ₃ COOH	80	20	68	A	B	A	A	A	X	C	X	
		40	104	B	C	A	A	A				
		60	140	C	X	C	B	A				
		80	176				C	A				
		100	212					A				
		120	248					A				
Acetic Acid (Glacial) CH ₃ COOH	99	20	68	X	X	A	A	A	X	X	X	
		40	104			B	A	A				
		60	140			C	B	A				
		80	176					A				
		100	212					A				
		120	248					A				
Acetic Anhydride (CH ₃ CO) ₂ O	Pure	20	68	X	X	B	B	A	X	C	X	
		40	104			C	C	A		X		
		60	140			X	X	A				
		80	176					A				
		100	212					A				
		120	248					A				
Acetone CH ₃ COCH ₃	Pure	20	68	X	X	A	X	A	X	A	X	
		40	104			A		A		B		
		60	140			C		A				
		80	176					A				
		100	212					A				
		120	248					A				
Acetone (Aqueous) CH ₃ COCH ₃	10 ppm	20	68	A	A	A	A	A	A	A	B	
		40	104	A	A	A	A	A	B	A	C	
		60	140	B	B	A	A	A		A		
		80	176			A	B	A		B		
		100	212				B	A				
		120	248				B	A				
Acetaldehyde CH ₃ CHO	Pure	20	68	X	X	A	X	A	C	A	X	
		40	104			A		A	C	A		
		60	140			B		A	X	B		
		80	176					A				
		100	212					A				
		120	248					A				
Acetaldehyde (Aqueous) CH ₃ CHO	40	20	68	X	X	A	X	A	B	A	X	
		40	104			A		A	B	A		
		60	140			A		A	C	A		
		80	176			B		A	X	B		
		100	212					A				
		120	248					A				
Acetamide CH ₃ CONH ₂	Satu	20	68			A		A	A	A	A	
		40	104					A	A	A	A	
		60	140					A				
		80	176					A				
		100	212					A				
		120	248					A				
Acetic Acid CH ₃ COOH	10	20	68	A	A	A	A	A	B	A	B	
		40	104	A	A	A	A	A	B	A		
		60	140	A	A	A	A	A	C	B		
		80	176			A	A	A	X			
		100	212					A				
		120	248					B	A			
Acetic Acid CH ₃ COOH	20	20	68	A	A	A	A	A	B	A	X	
		40	104	A	A	A	A	A	C	A		
		60	140	A	B	A	A	A	C	B		
		80	176			C	B	B	A	X		
		100	212					B	A			
		120	248					B	A			
Acetic Acid CH ₃ COOH	50	20	68	A	A	A	A	A	C	B	X	
		40	104	A	B	A	A	A	X			
		60	140	B	C	A	A	A				
		80	176			X		B	A			
		100	212					B	A			
		120	248					A				
Acetyl Bromide CH ₃ COBr	10	20	68					A	A			
		40	104					A	A			
		60	140					A	A			
		80	176					B	A			
		100	212					A				
		120	248					A				
Acetyl Chloride CH ₃ COCl	10	20	68					A	A	X	X	
		40	104					A	B	A		
		60	140					C	C	A		
		80	176					X	X	A		
		100	212							A		
		120	248									
Acetylene C ₂ H ₂	10	20	68	A	X	A	A	A	A	C	A	
		40	104					A	A	A	C	A
		60	140					A	A	A	X	B
		80	176					B	A	A		
		100	212							A	B	
		120	248							B		

Chemical	Concentration (%)	Temp.		PVC	CPVC	PP	PVDF	TEFLON	VITON	EPDM	NITRILE
		°C	°F								
Acetaldehyde CH ₃ CHO	Pure	20	68	X	X	A	X	A	C	A	X
		40	104			A		A	C	A	
		60	140			B		A	X	B	
		80	176					A			
		100	212					A			
		120	248					A			
Acetaldehyde (Aqueous) CH ₃ CHO	40	20	68	X	X	A	X	A	B	A	X
		40	104			A		A	B	A	
		60	140			A		A	C	A	
		80	176			B		A	X	B	
		100	212					A			
		120	248					A			
Acetamide CH ₃ CONH ₂	Satu	20	68			A		A	A	A	A
		40	104					A	A	A	A
		60	140					A			
		80	176					A			
		100	212					A			
		120	248					A			
Acetic Acid CH ₃ COOH	10	20	68	A	A	A	A	A	B	A	B
		40	104	A	A	A	A	A	B	A	
		60	140	A	A	A	A	A	C	B	
		80	176			A	A	A	X		
		100	212					A			
		120	248					B	A		
Acetic Acid CH ₃ COOH	20	20	68	A	A	A	A	A	B	A	X
		40	104	A	A	A	A	A	C	A	
		60	140	A	B	A	A	A	C	B	
		80	176			C	B	B	A	X	
		100	212					B	A		
		120	248					B	A		
Acetic Acid CH ₃ COOH	50	20	68	A	A	A	A	A	C	B	X
		40	104	A	B	A	A	A	X		
		60	140	B	C	A	A	A			
		80	176			X		B	A		
		100	212					B	A		
		120	248					A			