

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

*Special Viton FPM-C required. Consult Chemline.

Chemical	Concentration (%)	Temp.		PVC	CPVC	PP	PVDF	TEFLON	VITON	EPDM	NITRILE	Chemical	Concentration (%)	Temp.		PVC	CPVC	PP	PVDF	TEFLON	VITON	EPDM	NITRILE	
		°C	°F											°C	°F									
Castor Oil	Pure	20	68	A	A	A	A	A	A	A	A	Chromic Acid Anhydride CrO ₃	10	20	68	A	A	X	A	A	A	B	X	
		40	104	A	A	A	A	A	A	A	A			40	104	A	A		A	A	B	C		
		60	140	A	A	A	A	A	A	A	A			60	140	A	B		A	A	B	X		
		80	176		A	A	A	A						80	176		C		A	A	B			
		100	212				A	A						100	212				A	A	X			
		120	248				A	A						120	248									
Chloric Acid HClO ₃	20	20	68	A		X	A	A	A		FKM-C	Chromic Acid Anhydride CrO ₃	20	20	68	A	A	X	A	A	B	B	X	
		40	104	A			A	A		A				40	104	A	B		A	A	B	X		
		60	140	B			A	A						60	140	B	C		A	A	B			
		80	176				A	A						80	176				A	A	C			
		100	212											100	212				A	A	X			
		120	248											120	248									
Chlorine Dioxide ClO ₂	8 gm/li	20	68	A	A	C	A	A	A		FKM-C	Chromic Acid Anhydride CrO ₃	30	20	68	C	C	X	A	A	X	X	X	
		40	104	A	B	X	A	A						40	104	X	X		A	A				
		60	140	B	B		A	A						60	140				A	A				
		80	176				A	A						80	176				B	A				
		100	212				A	A						100	212				C	A				
		120	248				A	A						120	248									
Chlorine Dioxide ClO ₂	14 gm/li	20	68	A	A	C	A	A	A*		FKM-C	Chromic Acid Anhydride CrO ₃	50	20	68	C	C	X	A	A	X	X	X	
		40	104	A	B	X	A	A						40	104	X	X		A	A				
		60	140	B	B		A	A						60	140				A	A				
		80	176				A	A						80	176				B	A				
		100	212				A	A						100	212				A					
		120	248				A	A						120	248									
Chlorine Gas Cl ₂	** Wet	20	68	A	A	X	A	A	X	X	A	Chromic Potassium Alum KCr(SO ₄) ₂	Satu	20	68	A	A	A	A	A	A	A	A	
		40	104	A	B		A	A			40			104	A	A	A	A	A	A	A	A		
		60	140	B	C		A	A			60			140	A	A	A	A	A	A	A	A		
		80	176				A	A			80			176			A	A	A	A	B	B		
		100	212				A	A			100			212				A	A	A				
		120	248				A	A			120			248				B						
Chlorine Gas (up to 150 ppm moisture) Cl ₂	Dry	20	68	A	A	X	A	A	B	B		Citric Acid CH ₂ COOH CH ₂ COOH CH ₂ COOH	10	20	68	A	A	A	A	A	A	A	A	
		40	104	A	A		A	A	C	X				40	104	A	A	A	A	A	A	A	A	
		60	140	A	A		A	A	X					60	140	B	B	A	A	A	A	A	A	
		80	176				A	A						80	176		B	A	A	A	A	A	A	
		100	212				A	A						100	212				A	A	A			
		120	248				A	A						120	248									
Chlorine Solution (Chlorinated Water)	400 ppm	20	68	A	A	C	A	A	C	B	A	Coconut Oil		20	68	A	A	A	A	A	A	A	B	A
		40	104	A	B	X	A	A	X	C	A			40	104	A	A	A	A	A	A	A	B	A
		60	140	B	B		A	A			B				60	140	A	A	A	A	A	A		
		80	176				A	A			C				80	176		A	A	A	A			
		100	212				A	A							100	212				A	A			
		120	248				A	A							120	248				A	A			
Chlorine Solution (Chlorinated Water)	3000 ppm	20	68	A	A	X	A	A			NITRILE	Copper Acetate Cu(CH ₃ COO) ₂	Satu	20	68	A	A	A	A	A	A	A	A	
		40	104	A	A		A	A						40	104				A	A	A	A		
		60	140											60	140				A	A	A			
		80	176											80	176				A	A				
		100	212											100	212				A	A				
		120	248											120	248				A					
Chlorobenzene (Monochlorobenzene) C ₆ H ₅ Cl	Pure	20	68	X	X	B	A	A	B	X	X	Copper Borofluoride Cu(BF ₄) ₂		20	68	A	A	A	A	A	A	A	A	
		40	104			C	A	A						40	104				A	A	A	A		
		60	140				A	A						60	140				A	A	A			
		80	176				B	A						80	176				A	A	A			
		100	212				B	A						100	212				A	A				
		120	248											120	248				A	A				
Chloroform (Trichloromethane) CHCl ₃	Pure	20	68	X	X	X	C	A	X	X	X	Copper Carbonate Cu ₂ CO ₃	Satu	20	68	A	A	A	A	A	A	A	A	A
		40	104			X	A	A						40	104	A			A	A				
		60	140				B	A						60	140				A	A				
		80	176				C	A						80	176				A	A				
		100	212				X	A						100	212				A	A				
		120	248											120	248				A	A				
Chloro-sulfonic Acid HSO ₃ Cl	Pure	20	68	X	X	X	C	A	X	X	X	Copper Chloride CuCl ₂	Satu	20	68	A	A	A	A	A	A	A	A	A
		40	104				X	A						40	104	A	A	A	A	A	A	A	A	
		60	140					A						60	140	A	A	A	A	A	A	A	A	
		80	176					A						80	176		A	A	A	A	A	A	A	
		100	212											100	212				A	A	A	A		
		120	248											120	248				A	A				

**DV Series and Type 14 Diaphragm Valves with PVDF Gas Barriers are always recommended for Wet Chlorine gas. PVC or CPVC material bodies are recommended for maximum 21 psi services. Consult Chemline on all chlorine gas applications.