Chemicals: Formaldehyde - Heptane

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

Chemical	Concentration (%)	Temp. °C	Temp. °F	PVC	CPVC	PP	PVDF	TEFLON	VITON	EPDM	NITRILE
Formaldehyde HCHO	37	20	68	A	A	A	A	A	A	A	
		40	104	A	A	A	A	A	A	A	
		60	140	C	B	A	B	A	A	A	
		80	176			B	X	A	A	A	
		100	212					A			
		120	248					A			
Formaldehyde HCHO	50	20	68	A	A	A	A	A	B	A	
		40	104	A	A	A	A	A			
		60	140	C	B	A	B	A			
		80	176			B	X	A			
		100	212					A			
		120	248					A			
Formic Acid HCOOH	90	20	68	A	A	A	A	A	X	A	X
		40	104	B	B	B	A	A		A	
		60	140	X	X	X	A	A		A	
		80	176				A	A		A	
		100	212				B	A			
		120	248				C	A			
Freon F-11 CCl_3F		20	68	A			A	A	B	C	X
		40	104	A			A	A			
		60	140	A			A	A			
		80	176				A	A			
		100	212				A	A			
		120	248				A	A			
Freon F-12 CCl_2F_2		20	68	A			A	A	B	B	C
		40	104	A			A	A			
		60	140	A			A	A			
		80	176				A	A			
		100	212				A	A			
		120	248				A	A			
Freon F-21 $CHCl_2F$		20	68	X			A	A	C	C	X
		40	104				A	A	X		
		60	140				A	A			
		80	176				A	A			
		100	212				A	A			
		120	248				A	A			
Freon F-22 $CHClF_2$		20	68	X			A	A	X	B	X
		40	104				A	A			
		60	140				A	A			
		80	176				A	A			
		100	212				A	A			
		120	248				A	A			
Freon F-113 $CClF_2$-CCl_2F		20	68	B			A	A	B	X	X
		40	104				A	A			
		60	140				A	A			
		80	176				A	A			
		100	212				A	A			
		120	248				A	A			
Freon F-114 $CClF_2$-$CClF_2$		20	68	B			A	A	A	C	B
		40	104				A	A	A		
		60	140				A	A			
		80	176				A	A			
		100	212				A	A			
		120	248				A	A			
Fructose CH_2OH-CO-$(CHOH)_3$-CH_2OH		20	68	A	A	A	A	A	A	A	A
		40	104	A	A	A	A	A	A	A	A
		60	140	A	A	A	A	A	A	A	A
		80	176			A	A	A	A	A	B
		100	212				A	A	A		
		120	248				A	A			
Fruit Juice	Pure	20	68	A		A	A	A	A	A	
		40	104	A		A	A	A	A	A	
		60	140	A		A	A	A	A	A	
		80	176			A	A	A	A	A	
		100	212				A	A			
		120	248				A	A			

Chemical	Concentration (%)	Temp. °C	Temp. °F	PVC	CPVC	PP	PVDF	TEFLON	VITON	EPDM	NITRILE
Furan CH = CH-O-CH = CH		20	68				C	A	X	X	X
		40	104				X	A			
		60	140								
		80	176								
		100	212								
		120	248								
Furfural C_4H_3OCHO	Pure	20	68	X	X	C	B	A	B	A	X
		40	104			X	B	A	B	A	
		60	140				C	A	C	A	
		80	176				X	A		B	
		100	212					A			
		120	248					A			
Furfuryl Alcohol $C_4H_3OCH_2OH$	Pure	20	68	X	X		A	A	X	C	X
		40	104				A	A			
		60	140				B	A			
		80	176				X	A			
		100	212								
		120	248								
Gallic Acid $C_6H_2(OH)_3COOH$		20	68				A	A	A	A	A
		40	104				B	A			
		60	140				C	A			
		80	176				X	A			
		100	212					A			
		120	248					A			
Gasoline - Regular*		20	68	B		C	A	A	B	X	B
		40	104	B		X	A	A	B		B
		60	140				A	A	B		B
		80	176				A	A			
		100	212					A			
		120	248					A			
Gasoline - Sour		20	68	B		C	A	A	B	X	B
		40	104	B		X	A	A			
		60	140				A	A			
		80	176				A	A			
		100	212					A			
		120	248					A			
Gelatin & Glue		20	68	A	A	A	A	A	A	A	A
		40	104	A	A	A	A	A	A	A	A
		60	140	A	A	A	A	A	A	A	A
		80	176		A	A	A	A	A	A	B
		100	212				A	A	A		
		120	248				A	A			
Glycerol (Glycerine) $C_3H_5(OH)_3$	Pure	20	68	A	A	A	A	A	A	A	A
		40	104	A	A	A	A	A	A	A	A
		60	140	A	A	A	A	A	A	A	
		80	176			A	A	A	A	A	
		100	212				A	A			
		120	248				A	A			
Glycolic Acid $HOCH_2COOH$	Satu	20	68			A	B	A	A	A	A
		40	104			A	X	A			
		60	140			A	X	A			
		80	176				X	A			
		100	212					A			
		120	248								
Glycols (Ethylene Glycol)		20	68	A	A	A	A	A	A	A	A
		40	104	A	A	A	A	A	A	A	A
		60	140	A	A	A	A	A	A	A	A
		80	176		B	A	A	A	A	A	A
		100	212				A	A	A		
		120	248				A	A			
Heptane $CH_3(CH_2)_5CH_3$		20	68	A		A	A	A	A	X	A
		40	104	A		B	A	A	A		
		60	140	B		C	A	A	A		
		80	176				A	A			
		100	212				A	A			
		120	248				A	A			

©Chemline Plastics Limited 2001

*For **Premium grade Gasoline,** a special Buna-N elastomer is recommended over Viton. Consult Chemline.