

(A) Excellent = Recommended

(C) Fair (limited life)

(B) Good = Recommended

(X) Not Recommended

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									
Nitroethane CH ₃ CH ₂ NO ₂	Pure	20	68				A	A	X	A	X	Oil - Lubricating (ASTM 2 and 3)		20	68	A		B	A	A	A	X	A	
		40	104				A	A						40	104	A		C	A	A	A		B	
		60	140				A	A						60	140	A		X	A	A	A			
		80	176				A	A						80	176				A	A	A			
		100	212											100	212				A	A	B			
		120	248											120	248				A	A				
Nitrogen Dioxide NO ₂		20	68	A		A	A	A	A	A	A	Oil - Sulfonated		20	68	A		A	A	A	A	A	A	
		40	104				A	A						40	104									
		60	140				A	A						60	140									
		80	176				A	A						80	176									
		100	212											100	212									
		120	248											120	248									
Nitromethane CH ₃ NO ₂	Pure	20	68				A	A		B	X	Oil - Machine, Mineral, Motor		20	68	A		A	A	A	A	X	A	
		40	104				A	A						40	104	A		B	A	A	A		A	
		60	140											60	140	A		C	A	A	A		B	
		80	176											80	176				A	A				
		100	212											100	212				A	A				
		120	248											120	248									
Nitrotoluene C ₆ H ₄ CH ₃ NO ₂	Pure	20	68	X	X	A	A	A	C	X	C	Oil - Petroleum (Crude Oil)		20	68	B		B	A	A	A	X	A	
		40	104			A	A	A			X			40	104				A	A				
		60	140				A	A						60	140				A	A				
		80	176											80	176				A	A				
		100	212											100	212				A	A				
		120	248											120	248				A	A				
Nitrous Acid HNO ₂	10	20	68			C	A	A	A	B	X	Oleic Acid CH(CH ₂) ₇ CH ₃ CH(CH ₂) ₇ COOH		20	68	A	B	A	A	A	A	X	X	
		40	104			X	A	A						40	104	A	B	A	A	A	A			
		60	140				A	A						60	140	A	B	A	A	A	A			
		80	176				A	A						80	176			A	A	A	A			
		100	212											100	212				A	A	A			
		120	248											120	248				B	A	B			
Nitrous Oxide N ₂ O		20	68	A		A	A	A	A	A		Oleum (fuming sulphuric acid) H ₂ SO ₄ +SO ₃		20	68	X	X	X	X	A	X	X	X	
		40	104	A		A	A	A	A	A				40	104									
		60	140	A		A	A	A	A	A				60	140									
		80	176			A	A	A	A	B				80	176									
		100	212				A	A	B					100	212									
		120	248				B	A	B					120	248									
Octane C ₈ H ₁₈		20	68				A	A	A	X	A	Olive Oil		20	68	A	A	A	A	A	A	B	A	
		40	104				A	A						40	104	A	A	A	A	A	A		A	
		60	140				A	A						60	140	A	A	A	A	A	A		A	
		80	176				A	A						80	176			A	A	A	A		A	
		100	212				A	A						100	212				A	A				
		120	248				A	A						120	248				A	A				
Octene CH ₃ (CH ₂) ₅ CH=CH ₃	Pure	20	68				A	A	A	X	A	Organic Phosphorus Series Insecticide (Sumition®)		20	68	X	X	A	A	A	A	A	C	
		40	104				A	A						40	104			A	A	A	A	A		
		60	140				A	A						60	140			B	A	A	A	A		
		80	176				A	A						80	176				A	A				
		100	212				A	A						100	212				B	A				
		120	248				A	A						120	248				B	A				
Oil - Heavy		20	68	B	B	X	A	A	B	X	B	Oxalic Acid HOOC ₂ COOH	20	20	68	A	A	A	A	A	A	B	A	B
		40	104				A	A	A	B				40	104	A	A	A	A	A	A		A	
		60	140				A	A						60	140	A	A	A	A	A				
		80	176											80	176			A	A	B	A			
		100	212											100	212					C	A			
		120	248											120	248						A			
Oil - Light (Incl. Diesel Fuels)		20	68	A		A	A	A	A	X	A	Oxalic Acid HOOC ₂ COOH	50	20	68	A	A	A	A	A	A	B	A	B
		40	104				A	A	A					40	104	A	A	A	A	A	A		A	
		60	140				A	A	A					60	140	A	A	A	B	A				
		80	176				A	A						80	176			A	A	C	A			
		100	212				A	A						100	212						A			
		120	248											120	248						A			
Oil - Lubricating (ASTM 1)		20	68	A		B	A	A	A	X	A	Oxygen Gas O ₂		20	68	A	A	A	A	A	A	A	B	
		40	104	A		C	A	A	A		B			40	104	A			A	A	A	A		
		60	140	A		X	A	A	A					60	140	A			A	A	A	A		
		80	176				A	A	A					80	176				A	A	A	A		
		100	212				A	A	A					100	212						A			
		120	248				A	A						120	248						A			