Chemicals: Nitroethane - Oxygen Gas

(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
Nitroethane $CH_3CH_2NO_2$	Pure	20	68				A	A	X	A	X
		40	104					A			
		60	140					A			
		80	176					A			
		100	212								
		120	248								
Nitrogen Dioxide NO_2		20	68	A		A	A	A	A	A	A
		40	104				A	A			
		60	140				A	A			
		80	176				A	A			
		100	212					A			
		120	248					A			
Nitromethane CH_3NO_2	Pure	20	68				A	A		B	X
		40	104				A	A			
		60	140					A			
		80	176					A			
		100	212								
		120	248								
Nitrotoluene $C_6H_4CH_3NO_2$	Pure	20	68	X	X	A	A	A	C	X	C
		40	104			A	A	A			X
		60	140				A	A			
		80	176					A			
		100	212					A			
		120	248								
Nitrous Acid HNO_2	10	20	68			C	A	A	A	B	X
		40	104			X	A	A			
		60	140				A	A			
		80	176				A	A			
		100	212								
		120	248								
Nitrous Oxide N_2O		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	B	
		100	212				A	A	B		
		120	248				B	A	B		
Octane C_8H_{18}		20	68				A	A	A	X	A
		40	104				A	A			
		60	140				A	A			
		80	176				A	A			
		100	212				A	A			
		120	248				A	A			
Octene $CH_3(CH_2)_5CH=CH_3$	Pure	20	68				A	A	A	X	A
		40	104				A	A			
		60	140				A	A			
		80	176				A	A			
		100	212				A	A			
		120	248				A	A			
Oil - Heavy		20	68	B	B	X	A	A	B	X	B
		40	104				A	A	B		B
		60	140				A	A			
		80	176					A			
		100	212					A			
		120	248					A			
Oil - Light (Incl. Diesel Fuels)		20	68	A		A	A	A	A	X	A
		40	104				A	A	A		
		60	140				A	A	A		
		80	176				A	A			
		100	212				A	A			
		120	248					A			
Oil - Lubricating (ASTM 1)		20	68	A		B	A	A	A	X	A
		40	104	A		C	A	A	A		B
		60	140	A		X	A	A	A		
		80	176				A	A	A		
		100	212				A	A	A		
		120	248				A	A			

Chemical	Concentration (%)	Temp. °C	Temp. °F	PVC	CPVC	PP	PVDF	TEFLON	VITON	EPDM	NITRILE
Oil - Lubricating (ASTM 2 and 3)		20	68	A		B	A	A	A	X	A
		40	104	A		C	A	A	A		B
		60	140	A		X	A	A	A		
		80	176				A	A	A		
		100	212				A	A	B		
		120	248				A	A			
Oil - Sulfonated		20	68	A		A	A	A	A	A	A
		40	104								
		60	140								
		80	176								
		100	212								
		120	248								
Oil - Machine, Mineral, Motor		20	68	A		A	A	A	A	X	A
		40	104	A		B	A	A	A		A
		60	140	A		C	A	A	A		B
		80	176				A	A			
		100	212				A	A			
		120	248								
Oil - Petroleum (Crude Oil)		20	68	B		B	A	A	A	X	A
		40	104				A	A			
		60	140				A	A			
		80	176				A	A			
		100	212				A	A			
		120	248				A	A			
Oleic Acid $CH(CH_2)_7CH_3$ ‖ $CH(CH_2)_7COOH$		20	68	A	B	A	A	A	A	X	X
		40	104	A	B	A	A	A	A		
		60	140	A	B	A	A	A	A		
		80	176			A	A	A	A		
		100	212				A	A	A		
		120	248				B	A	B		
Oleum (fuming sulphuric acid) $H_2SO_4+SO_3$		20	68	X	X	X	X	A	X	X	X
		40	104								
		60	140								
		80	176								
		100	212								
		120	248								
Olive Oil		20	68	A	A	A	A	A	A	B	A
		40	104	A	A	A	A	A	A		A
		60	140	A	A	A	A	A	A		A
		80	176		A	A	A	A	A		A
		100	212				A	A			
		120	248				A	A			
Organic Phosphorus Series Insecticide (Sumition®)		20	68	X	X	A	A	A	A	A	C
		40	104			A	A	A	A	A	
		60	140			B	A	A	A	A	
		80	176				A	A			
		100	212				B	A			
		120	248				B	A			
Oxalic Acid HOOCCOOH	20	20	68	A	A	A	A	A	B	A	B
		40	104	A	A	A	A	A		A	
		60	140	A	A	A	A	A			
		80	176		A	A	B	A			
		100	212				C	A			
		120	248					A			
Oxalic Acid HOOCCOOH	50	20	68	A	A	A	A	A	B	A	B
		40	104	A	A	A	A	A		A	
		60	140	A	A	A	B	A			
		80	176		A	A	C	A			
		100	212					A			
		120	248					A			
Oxygen Gas O_2		20	68	A	A	A	A	A	A	A	B
		40	104	A			A	A	A	A	
		60	140	A			A	A	A	A	
		80	176				A	A	A	A	
		100	212					A			
		120	248					A			

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