Chemicals: Ozone Gas - Photographic Solution

(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
Ozone Gas O_3	7000 ppm	20	68	X	X	X	B	A		B	
		40	104					A			
		60	140					A			
		80	176								
		100	212								
		120	248								
Ozone Solution (Aqueous) O_3	10 ppm	20	68	A	A	B	A	A	A	A	
		40	104	A	B	B	A	A	A	A	
		60	140	B	B		A	A	B	B	
		80	176				A	A			
		100	212								
		120	248								
Ozone Solution (Aqueous) O_3	0.5 mg/l	20	68	A	B	X	A	A	A	A	
		40	104	A	B		A	A	A	A	
		60	140	B			A	A	B	B	
		80	176				A	A			
		100	212								
		120	248								
Palmitic Acid $C_{15}H_{31}COOH$	Pure	20	68	A		A	A	A	A	B	A
		40	104			A	A	A			
		60	140			A	A	A			
		80	176			B	A	A			
		100	212				A	A			
		120	248				A	A			
Paraffin Oil		20	68	A	A	A	A	A	A	X	A
		40	104	A	A	A	A	A	A		A
		60	140				A	A	A		
		80	176				A	A			
		100	212				A	A			
		120	248				A	A			
Peanut Oil		20	68	A	A	A	A	A			
		40	104				A	A			
		60	140				A	A			
		80	176				A	A			
		100	212				A	A			
		120	248				A	A			
Perchloro-ethylene $Cl_2C{=}CCl_2$	Pure	20	68	X	X	B	A	A	A	X	X
		40	104			C	A	A	A		
		60	140			X	A	A	B		
		80	176				A	A			
		100	212				A	A			
		120	248								
Perchloric Acid $HClO_4$	10	20	68	A		A	A	A	A	A	X
		40	104	A		A	A	A	A	A	
		60	140	B		B	A	A	A	A	
		80	176				A	A			
		100	212				A	A			
		120	248					A			
Perchloric Acid $HClO_4$	70	20	68	B		C	A	A	A	A	
		40	104				A	A	A	A	
		60	140				A	A	A	A	
		80	176				A	A			
		100	212					A			
		120	248								
Phenol C_6H_5OH	Pure	20	68	A		A	A	A	A	A	X
		40	104	B		A	A	A			
		60	140			B	B	A			
		80	176			X	B	A			
		100	212					A			
		120	248					A			
Phenylhydra-zine $C_6H_5NHNH_2$		20	68	X		C	A	A	X	B	X
		40	104				A	A			
		60	140				A	A			
		80	176				B	A			
		100	212				C	A			
		120	248				X	A			

Chemical	Concentration (%)	Temp. °C	Temp. °F	PVC	CPVC	PP	PVDF	TEFLON	VITON	EPDM	NITRILE
Phenylhydra-zine Hydrochloride $C_6H_8N_2{\cdot}HCl$		20	68	X	X	A	A	A	A	A	X
		40	104				A	A	A	A	
		60	140				A	A			
		80	176					A			
		100	212								
		120	248								
Phosgene Gas $COCl_2$		20	68	X	X	X			X		X
		40	104								
		60	140								
		80	176								
		100	212								
		120	248								
Phosphoric Acid H_3PO_4	10	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	B
		80	176		B	A	A	A	A	A	C
		100	212				A	A	A		
		120	248				A	A			
Phosphoric Acid H_3PO_4	50	20	68	A	A	A	A	A	A	A	A
		40	104	A	A	A	A	A	A	A	B
		60	140	A	B	A	A	A	A	A	C
		80	176		C	C	A	A	A	A	X
		100	212				A	A	A		
		120	248				A	A			
Phosphoric Acid H_3PO_4	85	20	68	A	A	A	A	A	A	A	A
		40	104	A	B	A	A	A	A	A	B
		60	140	B	B	A	A	A	A	A	X
		80	176		C	B	A	A	A	A	
		100	212				A	A	A		
		120	248				A	A			
Phosphorus Oxychloride (Phosphoryl chloride) $POCl_3$		20	68	X	X	X	X	B	X	X	X
		40	104					C			
		60	140								
		80	176								
		100	212								
		120	248								
Phosphorus Pentoxide P_2O_5	Pure	20	68	A	A	A	A	A	A	A	
		40	104				A	A	A	A	
		60	140				A	A	A	A	
		80	176				A	A			
		100	212				A	A			
		120	248					A			
Phosphorus Red P_4		20	68	A	A	A	A	A			
		40	104				A	A			
		60	140				A	A			
		80	176				A	A			
		100	212				A	A			
		120	248				A	A			
Phosphorus Trichloride PCl_3	Pure	20	68	X	X	X	A	A	B	X	X
		40	104				A	A			
		60	140				A	A			
		80	176				A	A			
		100	212				A	A			
		120	248					A			
Phosphorus Yellow P_4		20	68	A	A	A	A	A			
		40	104				A	A			
		60	140				A	A			
		80	176				A	A			
		100	212				A	A			
		120	248				A	A			
Photographic Solutions (Sodium Thiosulfate) $Na_2S_2O_3$		20	68	A	A	A	A	A	A	A	A
		40	104	A	A	A	A	A	A	A	
		60	140	A	A	A	A	A	A	A	
		80	176			A	A	A			
		100	212				A	A			
		120	248				A	A			

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