

Chemicals: Ozone Gas - Photographic Solution

(A) Excellent = Recommended (B) Good = Recommended (C) Fair (limited life) (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												
Ozone Gas O ₃	7000 ppm	20	68	X	X	X	B	A			B	Phenylhydrazine Hydrochloride C ₆ H ₈ N ₂ ·HCl		20	68	X	X	A	A	A	A	A	A	A	X		
		40	104					A							40	104				A	A	A	A				
		60	140					A								60	140				A	A	A				
		80	176														80	176					A				
		100	212														100	212									
		120	248														120	248									
Ozone Solution (Aqueous) O ₃	10 ppm	20	68	A	A	B	A	A	A	A		Phosgene Gas COCl ₂		20	68	X	X	X					X		X		
		40	104	A	B	B	A	A	A	A					40	104											
		60	140	B	B		A	A	A	B	B					60	140										
		80	176				A	A								80	176										
		100	212													100	212										
		120	248													120	248										
Ozone Solution (Aqueous) O ₃	0.5 mg/l	20	68	A	B	X	A	A	A	A		Phosphoric Acid H ₃ PO ₄	10	20	68	A	A	A	A	A	A	A	A	A	A		
		40	104	A	B		A	A	A	A					40	104	A	A	A	A	A	A	A	A	A		
		60	140	B			A	A	B	B					60	140	A	A	A	A	A	A	A	A	B		
		80	176				A	A							80	176		B	A	A	A	A	A	A	C		
		100	212												100	212				A	A	A					
		120	248												120	248				A	A						
Palmitic Acid C ₁₅ H ₃₁ COOH	Pure	20	68	A		A	A	A	A	B	A	Phosphoric Acid H ₃ PO ₄	50	20	68	A	A	A	A	A	A	A	A	A			
		40	104			A	A	A						40	104	A	A	A	A	A	A	A	B				
		60	140			A	A	A						60	140	A	B	A	A	A	A	A	C				
		80	176			B	A	A						80	176		C	C	A	A	A	A	X				
		100	212				A	A						100	212				A	A	A						
		120	248				A	A						120	248				A	A							
Paraffin Oil		20	68	A	A	A	A	A	A	X	A	Phosphoric Acid H ₃ PO ₄	85	20	68	A	A	A	A	A	A	A	A	A			
		40	104	A	A	A	A	A	A					40	104	A	B	A	A	A	A	A	B				
		60	140				A	A	A					60	140	B	B	A	A	A	A	A	X				
		80	176				A	A						80	176		C	B	A	A	A	A					
		100	212				A	A						100	212				A	A	A						
		120	248				A	A						120	248				A	A							
Peanut Oil		20	68	A	A	A	A	A				Phosphorus Oxychloride (Phosphoryl chloride) POCl ₃		20	68	X	X	X	X	B	X	X	X				
		40	104				A	A						40	104					C							
		60	140				A	A						60	140												
		80	176				A	A						80	176												
		100	212				A	A						100	212												
		120	248				A	A						120	248												
Perchloro-ethylene Cl ₂ C=CCl ₂	Pure	20	68	X	X	B	A	A	A	X	X	Phosphorus Pentoxide P ₂ O ₅	Pure	20	68	A	A	A	A	A	A						
		40	104			C	A	A	A					40	104				A	A	A	A					
		60	140			X	A	A	B					60	140				A	A	A	A					
		80	176				A	A						80	176				A	A							
		100	212				A	A						100	212				A	A							
		120	248											120	248				A	A							
Perchloric Acid HClO ₄	10	20	68	A		A	A	A	A	A	X	Phosphorus Red P ₄		20	68	A	A	A	A	A							
		40	104	A		A	A	A	A					40	104				A	A							
		60	140	B		B	A	A	A					60	140				A	A							
		80	176				A	A						80	176				A	A							
		100	212				A	A						100	212				A	A							
		120	248											120	248				A	A							
Perchloric Acid HClO ₄	70	20	68	B		C	A	A	A	A		Phosphorus Trichloride PCl ₃	Pure	20	68	X	X	X	A	A	B	X	X				
		40	104				A	A	A	A				40	104				A	A							
		60	140				A	A	A	A				60	140				A	A							
		80	176				A	A						80	176				A	A							
		100	212											100	212				A	A							
		120	248											120	248				A	A							
Phenol C ₆ H ₅ OH	Pure	20	68	A		A	A	A	A	A	X	Phosphorus Yellow P ₄		20	68	A	A	A	A	A							
		40	104	B		A	A	A						40	104				A	A							
		60	140			B	B	A						60	140				A	A							
		80	176			X	B	A						80	176				A	A							
		100	212					A						100	212				A	A							
		120	248					A						120	248				A	A							
Phenylhydrazine C ₆ H ₅ NHNH ₂		20	68	X		C	A	A	X	B	X	Photographic Solutions (Sodium Thiosulfate) Na ₂ S ₂ O ₃		20	68	A	A	A	A	A	A	A	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				B	A						80	176			A	A	A							
		100	212				C	A						100	212				A	A							
		120	248				X	A						120	248				A	A							