Chemicals: Sodium Thiocyanate - Sulphuric Acid

(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
Sodium Thiocyanate NaSCN		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		
		100	212				A	A			
		120	248				B	A			
Sodium Thiosulfate (Photographic Solutions)		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	B
		100	212				A	A	A	B	C
		120	248				A	A			
Soybean Oil		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	B	A	A	A		
		100	212				A	A			
		120	248				A	A			
Stannic Chloride (Tin (IV) Chloride) $SnCl_4$		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	B	A	A	A		
		100	212				A	A			
		120	248				A	A			
Stannous Chloride (Tin (II) Chloride) $SnCl_2$		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	B	A	A	A		
		100	212				A	A			
		120	248				A	A			
Stearic Acid $CH_3(CH_2)_{16}COOH$		20	68	A	A	A	A	A	A	B	A
		40	104	A	A	B	A	A	A		A
		60	140	A	A	B	A	A	B		B
		80	176		B		A	A	C		
		100	212				A	A			
		120	248				A	A			
Styrene $C_6H_5CH=CH_2$		20	68				A	A	A	X	C
		40	104					A			
		60	140					A			
		80	176					A			
		100	212					A			
		120	248					A			
Succinic Acid $HOOC(CH_2)_2COOH$		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	B	A	A	A		
		100	212				A	A			
		120	248				B	A			
Sugar Liquors		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		
		100	212				A	A			
		120	248				A	A			
Sulfamic Acid $HOSO_2NH_2$	20	20	68	A	A	A	A	A			
		40	104	A	A	A	A	A			
		60	140			A	A	A			
		80	176				A	A			
		100	212					A			
		120	248					A			
Sulfur S	Pure	20	68	A	A		A	A	A	C	X
		40	104	A	A		A	A			
		60	140	B	B			A			
		80	176		B			A			
		100	212					A			
		120	248					A			

Chemical	Concentration (%)	Temp. °C	Temp. °F	PVC	CPVC	PP	PVDF	TEFLON	VITON	EPDM	NITRILE
Sulfur Chloride S_2Cl_2		20	68			C	A	A	A	X	X
		40	104			X	A	A			
		60	140					A			
		80	176					A			
		100	212					A			
		120	248					A			
Sulfur Dichloride SCl_2		20	68			C	A	A	A	X	X
		40	104			X	A	A			
		60	140					A			
		80	176								
		100	212								
		120	248								
Sulfur Dioxide Gas SO_2	Dry	20	68	A	A	A	A	A	A	A	
		40	104	A	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			
		120	248				A	A			
Sulfur Dioxide Gas SO_2	Wet	20	68	A	A	A	A	A	A	A	
		40	104	A	A	A	A	A	A	A	
		60	140	B	A	A	A	A	A	A	
		80	176		B	B	A	A		A	
		100	212				A	A			
		120	248				A	A			
Sulfur Trioxide SO_3		20	68	X	X	X	X	B	X	X	X
		40	104								
		60	140								
		80	176								
		100	212								
		120	248								
Sulfuric Acid H_2SO_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	A
		80	176		A	A	A	A	A	A	B
		100	212				A	A	A		
		120	248				A	A	A		
Sulfuric Acid H_2SO_4	30	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	B
		100	212				A	A	A		
		120	248				A	A	A		
Sulfuric Acid H_2SO_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	A	A	A	A	A	A	B
		80	176		A	A	A	A	A	B	C
		100	212				A	A	A		
		120	248				A	A	B		
Sulfuric Acid H_2SO_4	60	20	68	A	A	A	A	A	A	A	A
		40	104	A	A	A	A	A	A	A	B
		60	140	A	A	A	A	A	A	A	B
		80	176		B	A	A	A	A	C	C
		100	212				A	A	B		
		120	248				C	A	C		
Sulfuric Acid H_2SO_4	70	20	68	A	A	A	A	A	A	A	B
		40	104	A	A	A	A	A	A	A	B
		60	140	A	A	A	A	A	A	B	B
		80	176		B	B	A	A	A	X	X
		100	212				A	A	B		
		120	248				C	B	C		
Sulfuric Acid H_2SO_4	80	20	68	A	A	A	A	A	A	A	B
		40	104	A	A	A	A	A	A	A	B
		60	140	B	B	B	A	A	A	B	C
		80	176		C	B	A	A	B	X	X
		100	212				B	A	C		
		120	248				X	B			

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Sulfuric Acid at 90°C: up to 50% – PP rated **"A"**, EPDM rated **"B"**; 51-93% – PP rated **"C"**.