Chemicals: Acrylonitrile - Ammonium Floride

(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
Acrylonitrile $CH_2=CHCN$		20	68	X	X	B	A	A	X	A	X
		40	104			C	B	A		A	
		60	140				C	A		B	
		80	176				X	A			
		100	212					A			
		120	248					A			
Adipic Acid $H00C(CH_2)_4 –COOH$	Satu	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	B	
		100	212				A	A	B		
		120	248				A	A			
Allyl Alcohol $CH_2=CHCH_2OH$		20	68	A		A	A	A	A		A
		40	104			A	A	A	A		B
		60	140			B	A	A	A		B
		80	176				A	A	B		
		100	212					A			
		120	248					B			
Allyl Chloride $CH_2=CHCH_2Cl$		20	68	X			A	A	B	X	B
		40	104				C	A	B		C
		60	140				X	A	C		X
		80	176					A			
		100	212					A			
		120	248					A			
Alum (Potassium alum) $K_2SO_4Al_2(SO_4)_3$	Satu	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			
Aluminum Acetate $Al(CH_3CO_2)_3$	Satu	20	68	A	A	A	A	A	A	A	
		40	104	B	B	A	A	A	B	A	
		60	140				A	A		A	
		80	176				A	A		A	
		100	212				A	A			
		120	248					A			
Aluminum Ammonium Sulfate (Ammonium Alum) $(NH_4)Al(SO_4)_2$	Satu	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	A	B
		100	212				A	A	A		
		120	248				A	A			
Aluminum Bromide $Al Br_3$	Satu	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			
Aluminum Chloride $Al Cl_3$	Satu	20	68	A	A	A	A	A	A	A	A
		40	104	A	A	A	A	A	A	A	A
		60	140	B	B	A	A	A	A	A	
		80	176		B	A	A	A	A	A	
		100	212				A	A	A		
		120	248				A	A			
Aluminum Fluoride $Al F_3$	Satu	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	A
		100	212				A	A	A		
		120	248				A	A			
Aluminum Hydroxide $Al(OH)_3$	Satu	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	B		
		120	248				A	A			

Chemical	Concentration (%)	Temp. °C	Temp. °F	PVC	CPVC	PP	PVDF	TEFLON	VITON	EPDM	NITRILE
Aluminum Nitrate $Al (NO_3)_3$	Satu	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			
Aluminum Sulfate $Al_2 (SO_4)_3$	Satu	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			
Amber Acid (Succinic Acid) $CH_2=COOH$ | $CH_2=COOH$	Satu	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	A	A
		100	212				A	A	A		
		120	248				A	A			
Aminoacetic Acid NH_2CH_2COOH	10	20	68	A		A	A	A	B	A	A
		40	104	A		A	A	A		A	
		60	140				A	A			
		80	176				A	A			
		100	212					A			
		120	248					A			
Ammonia Gas NH_3	100	20	68	A	C	A	A	A	X	A	A
		40	104	A	C	A	A	A		A	A
		60	140	A	X	B	A	A		A	B
		80	176		X	B	A	A		B	
		100	212				B	A			
		120	248				B	A			
Ammonia Solution (Ammonium Hydroxide) NH_4OH	* 10	20	68	A	C	A	A	A	B	A	A
		40	104	A	C	A	A	A	C	A	B
		60	140	A	X	A	A	A	X	A	B
		80	176		X	B	A	A		A	
		100	212				A	A		A	
		120	248				B	A			
Ammonium Acetate $NH_4CH_3CO_2$	Satu	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	B	B	B
		100	212				A	A	B		
		120	248				B	A			
Ammonium Bicarbonate NH_4HCO_3		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			
		100	212				A	A			
		120	248					A			
Ammonium Carbonate $(NH_4)_2CO_3$	Satu	**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	
		100	**212**				A	A	A		
		120	**248**				A	A			
Ammonium Chloride NH_4Cl	Satu	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	A	B
		100	212				A	A	A		
		120	248				A	A			
Ammonium Fluoride NH_4F	20	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	
		80	176			B	A	A			
		100	212				A	A			
		120	248				A	A			

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*30% **Ammonia** solution at 50ºC, PVC & EPDM recommended.