

Chemical resistance guide

Medium	Concentration	Formula	T°C	Solution	PVC-U	PP	PVDF	PTFE	EPDM	FPM
Hydrochloric acid	30	HCl	40	Aqueous	+	o	+	+	+	+
Hydrochloric acid	30	HCl	20	Aqueous	+	+	+	+	+	+
Hydrochloric acid	30	HCl	60	Aqueous	o	o	+	+	o	o
Hydrochloric acid	30	HCl	80	Aqueous		-	+	+		
Hydrochloric acid	30	HCl	100	Aqueous			+	+		
Hydrochloric acid	30	HCl	120	Aqueous						
Hydrofluoric acid	70	HF	20	Aqueous	o	o	+	+	-	o
Hydrofluoric acid	70	HF	40	Aqueous			+	+		
Hydrofluoric acid	70	HF	60	Aqueous			+	+		
Hydrofluoric acid	70	HF	80	Aqueous			+	+		
Hydrofluoric acid	70	HF	100	Aqueous			+	+		
Hydrofluoric acid	70	HF	120	Aqueous						
Ammonia	25	NH ₄ OH	20	Aqueous	+	+	-	+	+	+
Ammonia	25	NH ₄ OH	40	Aqueous	+	+		+	+	o
Ammonia	25	NH ₄ OH	60	Aqueous	o	+		+	+	
Ammonia	25	NH ₄ OH	80	Aqueous				+		
Ammonia	25	NH ₄ OH	100	Aqueous				+		
Ammonia	25	NH ₄ OH	120	Aqueous						
Sulphuric acid	96	H ₂ SO ₄	20	Aqueous	+	-	+	+	-	+
Sulphuric acid	96	H ₂ SO ₄	40	Aqueous	o		+	+		
Sulphuric acid	96	H ₂ SO ₄	60	Aqueous			+	+		
Sulphuric acid	96	H ₂ SO ₄	80	Aqueous			o	+		
Sulphuric acid	96	H ₂ SO ₄	100	Aqueous			-	+		
Sulphuric acid	96	H ₂ SO ₄	120	Aqueous						
Sulphuric acid	50	H ₂ SO ₄	20	Aqueous	+	+	+	+	+	+
Sulphuric acid	50	H ₂ SO ₄	40	Aqueous	+	+	+	+	+	+
Sulphuric acid	50	H ₂ SO ₄	60	Aqueous	o	+	+	+	o	+
Sulphuric acid	50	H ₂ SO ₄	80	Aqueous			+	+		o
Sulphuric acid	50	H ₂ SO ₄	100	Aqueous			+	+		
Sulphuric acid	50	H ₂ SO ₄	120	Aqueous						
Ferric chloride	50	FeCl ₃	20	Aqueous	+	+	+	+	+	+
Ferric chloride	50	FeCl ₃	40	Aqueous	+	+	+	+	+	+
Ferric chloride	50	FeCl ₃	60	Aqueous	+	+	+	+	+	+
Ferric chloride	50	FeCl ₃	80	Aqueous	+	+	+	+	+	+
Ferric chloride	50	FeCl ₃	100	Aqueous			+	+	o	+
Ferric chloride	50	FeCl ₃	120	Aqueous						
Methyl alcohol	100	CH ₄ O	20	Pure	+	+	+	+	+	o
Methyl alcohol	100	CH ₄ O	40	Pure	+	+	+	+	+	o
Methyl alcohol	100	CH ₄ O	60	Pure	o	+	+	+	+	o
Methyl alcohol	100	CH ₄ O	80	Pure			+	+		
Methyl alcohol	100	CH ₄ O	100	Pure			+	+		
Methyl alcohol	100	CH ₄ O	120	Pure						
Sodium hydroxide	30	NaOH	20	Aqueous	+	+	-	+	+	o
Sodium hydroxide	30	NaOH	40	Aqueous	+	+		+	+	-
Sodium hydroxide	30	NaOH	60	Aqueous	+			+	+	
Sodium hydroxide	30	NaOH	80	Aqueous				+		

+= resistant

o = limited resistance

- = non-resistant

empty = not tested at the specified temperature

The above manual is not binding and does not imply Syveco's responsibility.

Medium	Concentration	Formula	T°C	Solution	PVC-U	PP	PVDF	PTFE	EPDM	FPM
Sodium hydroxide	30	NaOH	100	Aqueous				+		
Sodium hydroxide	30	NaOH	120	Aqueous				+		
Sodium hypochlorite	12,5% Cl	NaClO	20	Aqueous	+	o	o			
Sodium hypochlorite	12,5% Cl	NaClO	40	Aqueous	+	-	o	+	o	+
Sodium hypochlorite	12,5% Cl	NaClO	60	Aqueous	o		-	+		
Sodium hypochlorite	12,5% Cl	NaClO	80	Aqueous				+		
Sodium hypochlorite	12,5% Cl	NaClO	100	Aqueous				+		
Sodium hypochlorite	12,5% Cl	NaClO	120	Aqueous				+		
Hydrogen sulfide	100	H ₂ S	20	Gas	+	+	+			
Hydrogen sulfide	100	H ₂ S	40	Gas	+	+	+	+	+	-
Hydrogen sulfide	100	H ₂ S	60	Gas	+	+	+	+	o	
Hydrogen sulfide	100	H ₂ S	80	Gas				+	+	-
Hydrogen sulfide	100	H ₂ S	100	Gas				+	+	
Hydrogen sulfide	100	H ₂ S	120	Gas				+		
Demineralised water	100	H ² O	20	Pure	+	+	+			
Demineralised water	100	H ² O	40	Pure	+	+	+	+	+	+
Demineralised water	100	H ² O	60	Pure	+	+	+	+	+	+
Demineralised water	100	H ² O	80	Pure	+	+	+	+	o	+
Demineralised water	100	H ² O	100	Pure				+	+	-
Demineralised water	100	H ² O	120	Pure				+	+	+
Calcium hydroxide	SAT	Ca(OH) ₂	20	Aqueous	+	+	o	+	+	+
Calcium hydroxide	SAT	Ca(OH) ₂	40	Aqueous	+	+	o	+	+	+
Calcium hydroxide	SAT	Ca(OH) ₂	60	Aqueous	+	+	o	+	+	o
Calcium hydroxide	SAT	Ca(OH) ₂	80	Aqueous	+	-	+	+	o	o
Calcium hydroxide	SAT	Ca(OH) ₂	100	Aqueous				+	+	o
Calcium hydroxide	SAT	Ca(OH) ₂	120	Aqueous				+		o
Nitric acid	70	HNO ₃	20	Aqueous	o	-	+			
Nitric acid	70	HNO ₃	40	Aqueous	o		+	+	-	+
Nitric acid	70	HNO ₃	60	Aqueous	-		+	+		o
Nitric acid	70	HNO ₃	80	Aqueous				+		-
Nitric acid	70	HNO ₃	100	Aqueous				+		
Nitric acid	70	HNO ₃	120	Aqueous				+		
Sodium chloride	SAT	NaCl	20	Aqueous	+	+	+			
Sodium chloride	SAT	NaCl	40	Aqueous	+	+	o	+	+	+
Sodium chloride	SAT	NaCl	60	Aqueous	+	+	o	+	+	+
Sodium chloride	SAT	NaCl	80	Aqueous	+			+	+	+
Sodium chloride	SAT	NaCl	100	Aqueous				+	+	
Sodium chloride	SAT	NaCl	120	Aqueous				+		
Citric acid	SAT	C ₆ H ₈ O ₇	20	Aqueous	+	+	+			
Citric acid	SAT	C ₆ H ₈ O ₇	40	Aqueous	+	+	+	+	+	+
Citric acid	SAT	C ₆ H ₈ O ₇	60	Aqueous	o	+	+	+	+	+
Citric acid	SAT	C ₆ H ₈ O ₇	80	Aqueous	+	+	+	+	+	+
Citric acid	SAT	C ₆ H ₈ O ₇	100	Aqueous				+	+	
Citric acid	SAT	C ₆ H ₈ O ₇	120	Aqueous				+	+	