

CHEMICAL RESISTANCE OF PRALON® PIPE

⊙ : Unaffected ○ : Unaffected to little affected △ : Little affected but recommendable

X: Not recommended

Chemicals	Concentration %	Temperature °C		
		20	40	60
Inorganic Acids				
Sulfurous acid	100	○	X	X
Hydrochloric acid	Below 30	⊙	⊙	○
	Above 30	⊙	⊙	○
Chloric acid	Below 30	⊙	⊙	○
Chlorine water	sat.	○	△	
Perchloric acid	Below 10	⊙	⊙	○
	20	⊙		△
Mixed chromic acid				
C ₂ O ₃ (25) : H ₂ SO ₄ (20) : aq.(55)		○	○	○
C ₂ O ₃ (40) : H ₂ SO ₄ (20) : aq.(40)		⊙	⊙	○
Chromic acid	10	⊙	⊙	△
	50	⊙	○	X
Chlorosulfonic acid	100	△		X
Hydrofluosilicic acid	34	⊙	⊙	△
Mixed acid				
H ₂ SO ₄ (57) : HNO ₃ (28) : aq. (15)		⊙	○	
H ₂ SO ₄ (15) : HNO ₃ (20) : aq. (65)		⊙	⊙	○
H ₂ SO ₄ (50) : HNO ₃ (33) : aq. (17)		⊙	○	
H ₂ SO ₄ (48) : HNO ₃ (49) : aq. (3)		⊙	○	
H ₂ SO ₄ (50) : HNO ₃ (50) : aq. (0)		○	X	
H ₂ SO ₄ (10) : HNO ₃ (20) : aq. (70)		⊙	⊙	
H ₂ SO ₄ (11) : HNO ₃ (87) : aq. (2)		○		
Hydrobromic acid	40	⊙	⊙	○
Bromine	100	X		
Bromic acid	10	⊙		
Nitric acid	Below 50	⊙	⊙	○
	50 - 60	⊙	○	
	70	△	△	
	96	X		
Blue acid	100	⊙		
Carbonic acid	100	⊙	⊙	⊙
Fuming sulfuric acid	10	X		
Arsenic acid	Below 30	⊙	⊙	○
	75	○		X
Hydrofluoric acid	10	⊙		
	20	○	○	○
	40	○		X
Boric acid	sat.	⊙	⊙	○
Sulfuric acid anhydride	100	⊙		
Sulfuric acid	Below 90	⊙	⊙	○
	96	⊙	○	△
	98	○	△	
Phosphoric acid	Below 30	⊙	⊙	○
	Above 30	⊙	○	○
Organic Acids				
Adipic acid	sat.	⊙	⊙	○
Benzoic acid	sat.	⊙	⊙	△
Oleic acid	100	⊙	⊙	○
Formic acid	Below 50	⊙	⊙	△
	Above 50	⊙		X
Citric acid	25	⊙	⊙	⊙
Succinic acid	sat.	⊙	⊙	○
Acetic acid	Below 60	⊙	⊙	○
	85-90	⊙	○	
	Above 95	○	X	X

Chemicals	Concentration %	Temperature °C		
		20	40	60
Glacial acetic acid	100	△	X	X
Diglycolic acid	20	⊙	⊙	⊙
Oxalic acid	9	⊙	⊙	
Tartaric acid	50	⊙	⊙	⊙
Lactic acid	50	⊙	⊙	⊙
	90	X		
Picric acid	5	○		
Phenol	sat.	△		X
Benzene sulfonic acid	10	⊙	⊙	
	50	○		
Malic acid	44	⊙	⊙	○
Methyl sulfuric acid	50	⊙		△
Butyric acid	20	⊙		
	100	X		
Alkalies				
Ammonia water	30	⊙	⊙	○
Potassium hydroxide	Below 40	⊙	⊙	○
	Above 40	⊙	⊙	⊙
Calcium hydroxide (slaked lime)	sat.	⊙	⊙	
Sodium Hydroxide (caustic soda)	Below 40	⊙	⊙	○
	40 - 60	⊙	⊙	⊙
Magnesium hydroxide	sat.	⊙	⊙	⊙
Inorganic Salts and other Inorganics				
Sodium sulfite	40	⊙	⊙	⊙
Zinc chloride	sat.	⊙	⊙	⊙
Aluminum chloride	25	⊙	⊙	△
Ammonium chloride	27	⊙	⊙	⊙
Potassium chloride	sat.	⊙	⊙	⊙
Calcium chloride	sat.	⊙	⊙	⊙
Mercuric chloride	sat.	⊙	⊙	⊙
Stannic chloride	25	⊙		△
Ferric Chloride	sat.	⊙	⊙	⊙
Cupric chloride	sat.	⊙	⊙	⊙
Sodium chloride (common salt)	sat.	⊙	⊙	⊙
Barium chloride	sat.	⊙	⊙	⊙
Magnesium chloride	25	⊙	⊙	⊙
Sodium chlorate	sat.	⊙	⊙	⊙
Potassium chlorate	15	⊙	⊙	⊙
Potassium perchlorate	1	⊙	○	
Hydrogen proxide	20	⊙	⊙	○
	40	○	○	
Potassium permanganate	15	⊙	○	○
Potassium persulfate	sat.	⊙	⊙	○
Antimony trioxide	sat.	⊙	⊙	⊙
Potassium hypochloride (bleaching powder)	30	⊙		
Potassium bichromate	5	⊙		
	10	⊙		
Potassium bisulfite	sat.	⊙	⊙	⊙
Potassium nitrate	sat.	⊙	⊙	⊙
Calcium nitrate	50	⊙	⊙	
Sodium nitrate	sat.	⊙	⊙	⊙
Mercury	100	⊙	⊙	⊙
Ammonium carbonate	sat.	⊙	⊙	⊙
Potassium carbonate	sat.	⊙	⊙	⊙
Potassium ferrocyanide	sat.	⊙	⊙	⊙
Ammonium fluoride	sat.	⊙	⊙	⊙
Potassium iodide	sat.	⊙	⊙	⊙