

Chemical corrosion list

⌘ Syalon 101

Molten Salts and Alkalies

Species	Concentration %	Exposure Times in hours	Temperature in °C	No Reaction	Weak Reaction	Strong Reaction
Sodium Hydroxide			400		X	
Sodium Sulfate			1000			X
Sodium & Potassium Chloride			900			X
Chloride & Potassium Chloride			350		X	
Sodium & Zirconium Fluoride			650			X

Molten Metals and Alloys

Species	Concentration %	Exposure Times in hours	Temperature in °C	No Reaction	Weak Reaction	Strong Reaction
Copper		7	1150		X	
Zinc		500	550	X		
Magnesium		500	750		X	
Aluminium		1000	950	X		
Tin		144	300	X		
Iron		2	1450			X

Acids

Species	Concentration %	Exposure Times in hours	Temperature in °C	No Reaction	Weak Reaction	Strong Reaction
Hydrochloric Acid	20	500	Boiling	X		
Nitric Acid	60	500	Boiling	X		
Sulphuric Acid	10	500	70	X		
Sulphuric Acid	85	500	20	X		
Orthophosphoric Acid		500	20	X		
Pyrophosphoric Acid		500	20	X		
Hydrofluoric Acid	Concentrated	192	Boiling		X	
Sodium Hydroxide	20	500	20	X		
Sodium Hydroxide	50	115	Boiling	X		
Hydrofluoric & Nitric Acid	Concentrated	68	Boiling		X	

Gases

Species	Concentration %	Exposure Times in hours	Temperature in °C	No Reaction	Weak Reaction	Strong Reaction
Oxygene	Air		500	X		
Oxygene	Air		700		X	
Oxygene	Air		1200			X
Chlorine	Air	500	900	X		

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