



电极和衬里耐腐蚀材料选择一览表

Corrosion-Resistant Material Selection List for Electrodes and Liners

编制说明/Note

对《电极和衬里耐腐蚀材料选择一览表》需要说明的是：“适用”不应理解为“建议”，能否适用最后由使用者决定。未列出浓度和温度范围者并不是说在任何浓度和湿度都适用。

What needs to be explained in *Corrosion-Resistant Material Selection List for Electrodes and Liners* is that "A" (Applicable) should not be interpreted as "suggestion", and whether it is applicable or not is ultimately up to the user. The fact that concentration and temperature ranges are not listed does not mean that it is suitable for any concentration and humidity.

本资料仅仅指导你去选择最合适的可选材料，任何材料在诸如温度、压力、流速、磨损和污染等情况下其行为很不一样，用户有责任去小心地分析所有的流程参数和选定的材料。

This document only guides you to choose the most suitable material. Any material behaves very differently under conditions such as temperature, pressure, flow rate, wear and pollution, and it is the user's responsibility to carefully analyze all process parameters and materials selected.

表格中符号：A 为适用；B 为可用，但寿命短；X 为虽有良好耐腐蚀性但因电极表面效应等而不推荐使用；N 为不能用；空白为无数据；R 为室温；S 为沸点；Sat 为饱和；M 为决定于衬里最高耐温。

Symbols in the table:

A means applicable;

B means usable, but with short life;

X means good corrosion resistant but not recommended due to electrode surface effects;

N means not usable;

Blank means no data;

R means room temperature;

S is the boiling point;

Sat is saturation;

M is determined by the maximum temperature resistance of the lining.



Corrosion-Resistant Material Selection List for Electrodes and Liners

液体Liquids			电极材料Electrode materials					衬里材料Liner materials				
名称 Name	浓度% Concentration%	温度℃ Temperature °C	不锈钢 S/S	哈氏合金 C Hastelloy Alloy C	钛 Titanium	钽 Tantalum	铂 Platinum	聚四氟乙烯 Teflon	PFA	聚氨酯橡胶 Polyurethane rubber	氯丁橡胶 Neoprene	陶瓷 Ceramics
乙醛 Acetaldehyde	100	R	B	A	A	A	A	A	A	N	N	A
乙酸，醋酸 Acetic acid	5~10	R~S	A	A	A	A	A	A	A	N	A	A
	50 以上 Above 50	R~S	N	A	A	A	A	A	A	N	N	A
	S	R~S	N	A	A	X	A	A	A		N	A
乙酐（醋酐） Acetic anhydride		R	A	A	A	X	A	A	A	N	B	A
丙酮 Acetone	100	R	B	A	A	X	A	A	A	N	B	A
明矾 Alum	10~100	R	N	N	A	A	A	A			B	A
矾土，氧化铝 Alumina			A	X		A	A	A			N	
氯化铝 Aluminum chloride	10	100 以下 Below 100	N	N	A	B	A	A			A(M)	A
	25~100	100 以下 Below 100	N	N	N	B	A	A			A(M)	A
氯化铝水合物 AlCl ₃ ·6H ₂ O Aluminum chlorohydrate			N	N		A	A	A			A	
氟化铝 Aluminum fluoride	100		N	N		N	A	A	A			A
氯酸铝 Aluminum chlorate	100		N	N		A	A		A			A
氢氧化铝 Aluminum hydroxide	100		B	N		A	A	A	A			A
硝酸铝 Aluminum nitrate	100		N	N	B	N	A	A	A	A		A
硫酸铝 Aluminum sulfate	10	R~S	A	X	A	A	A	A	A	B	A	A
	>10~100	R~50		X	A	X	A	A	A		A	A
	57	120		X	A	X	A	A	A		N	A
氨水 Ammonia	10	R	A	A	A	X	A	A				A
	10~100	S 以下 Below S	B	A	A	N	A	A	A		A(M)	A
硼酸铵 Ammonium borate	100		N	N		A	A					A
碳酸氢铵 Ammonium bicarbonate			N	N		A		A				
二氟化铵 Ammonium bifluoride			N	N		A	A	A				



硫酸氢铵 Ammonium bisulfate	50 以下 Below 50		N	N		A	A	A	A		A	A
碳酸铵 Ammonium carbonate	Sat 以上 Above Sat	R~S	N	N		A	A	A	A		A(M)	A
氯化铵 Ammonium chloride	10~20	R~S	N	B	B	A	A	A	A		A(M)	A
	50 以上 Above 50	R~S	N	B	B	X	A	A	A		N	A
氟化铵 Ammonium fluoride	20~100	80	N	B	B	N	A	A	A		A	A
氢氟酸铵 Ammonium hydrogen fluoride	50		N	B	N	N	A	A	A	A	A	A
氢氧化铵 Ammonium hydroxide	10~30	20~60	B	B	A	B	A	A	A	A	A	A



液体 Liquids			电极材料 Electrode materials					衬里材料 Liner materials				
名称 Name	浓度% Concentration%	温度℃ Temperature °C	不锈钢 S/S	哈氏合金 C Hastelloy Alloy C	钛 Titanium	钽 Tantalum	铂 Platinum	聚四氟乙烯 Teflon	PFA	聚氨酯橡胶 Polyurethane rubber	氯丁橡胶 Neoprene	陶瓷 Ceramics
硝酸铵 Ammonium nitrate	10~50	R	N	B	B	X	A	A		N	A	A
	10~50	<S	N	B	B	X	A	A		N	A(M)	A
过硫酸铵 Ammonium persulfate	100		N	N	N	A	A	A		N	B	A
磷酸铵 Ammonium phosphate	100		N	N		A	A	A	A			A
硫酸铵 Ammonium sulfate	20~Sat		N	N	B	A	A	A	A	A		A
硫化铵 Ammonium sulfide	100					B	B		A			A
王水 Aqua regia	100		N	N	B	A	N		N			A
苯胺 Aniline		R	A	A	A	X	A	A			N	A
		S	B	A	A	X	A	A			N	A
五氯化锑 Antimony pentachloride	100		N	N		A	A	A	A			A
三氯化锑 Antimony trichloride	100		N	N		A	A	A	A			A
砷酸 Arsenic acid	100		N	N		A	A	A	A		A	A
亚砷酸 Arsenious acid	100		N	N		A	A	A	A		A	A
乙酸钡醋酸钡 Barium acetate	100		N	N		A	A	A				
碳酸钡 Barium carbonate	100		N	N		A	A	A	A			A
氯化钡 Barium chloride	20	R	N	B	B	A	A	A	A	A	A	A
	20~30	<100	N	B	B	A	A	A	A		A(M)	A
氢氧化钡 Barium hydroxide	Sat	R	A	N	N	A	A	A	A	A	A	A
		S	A	N	N	N	A	A	A		A(M)	A
硫酸钡 Barium sulfate	100		N	N	B	A	A	A		A	B	A
硫化钡 Barium sulfide	100		N	N		A	A	N		N		A
铝土浆 Bauxite slurry			A	A		A	A	B	A	A	B	A
啤酒 Beer			A	A		A	A	A				
(造纸) 黑液 Black liquor			B			A	A	A		N	N	
苯 Benzene		R	A	A	A	X	A	A				A
苯酸, 苯甲酸 Benzoic acid 安息香酸	所有 All	R	A	A	A	X	A	A				A
苯磺酸 Benzene sulfonic acid	5	70	A	A		X	A	A				A
	100		N	N		X	A	A	A			A
硼砂 Borax			N	N		A	A	A	A	B		



液体/Liquids			电极材料Electrode materials					衬里材料Liner material				
名称 Name	浓度% Concentration%	温度℃ Temperature °C	不锈钢 S/S	哈氏合金 C Hastelloy Alloy C	钛 Titanium	钽 Tantalum	铂 Platinum	聚四氟乙烯 Teflon	PFA	聚氨酯橡胶 Polyurethane rubber	氯丁橡胶 Neopren	陶瓷 Ceramics
硼酸 Boracic acid	10~50	S	A	A	A	A	A	A			A(M)	A
盐水 Brine		R~S	B	A	A	X	A	A		N	A(M)	A
液溴（无水） Bromine		R~S	N	A	N	A	A	A	A	N	N	A
丁酸 Butyric acid	100	R~S	A	A	A	X		A			A	A
醋酸丁酯 Butylacetate		R	A	A	A	X	A	A			N	A
丁醇 Butyl-alcohol		R	A	A	A	X	A	A			A	A
		S	A	A	A	X	A	A			N	A
硫酸氢钙 Calcium bisulfate	100	R	N	B	A	A	A	A	A		B	A
亚硫酸氢钙 Calcium bisulfite		R	A	A	A	A	A	A			B	A
碳酸钙 Calcium carbonate	100	R~S	B	B		A	A	A			A(M)	
氯酸钙 Calcium chlorate	30~40		N	N	B	B	A	A	A		A(M)	A
氯化钙 Calcium chloride	100		N	N		A	A	A		B	A	A
氢氧化钙 Calcium hydroxide	25		N	B		A	A	A		A	A	
次氯酸钙 Calcium hypochlorite	20	40	B	A	A	A	A	A			B	A
	100		N	N	A	A	A	A	A			A
硝酸钙 Calcium nitrate			N	N	A		A	A	A		A	A
硫酸钙 Calcium sulfate	1~10	R~S	A	A	A	A	N	A			N	A
二硫化碳 Carbon disulfide		R~S	A	A	A	X	A	A			N	A
四氯化碳 Carbon tetrachlorine		R	B	A	A	X		A	A		N	A
干酪 Cheese			A	A		A	A	A			N	
无水氯（液氯） Chlorine		R~70	B	A	N	X	A	A	A		N	
		100	N	A	A	X	A	A			N	
二氧化氯 Chlorine dioxide			N	N		A	N	A		N	N	
氯酸盐 Chlorate		50	A					A				A
氯苯 Chlorine benzene		20~S	A	A	A			A			N	A
氯乙酸 Chloracetic acid	25~100	R~S	B	A	A	A		A	A		N	A
氯磺酸 Chlorosulfonic acid		R~S	N	A	N	X	A	A	A		N	A
铬酸 Chromic acid	10	R	A	A	A	A	A	A			N	A
	10	S	N	A	A	A	A	A			N	A
	50	R~S	N	A	A	A	A	A	A		N	A
	100		N	N		A	A	A				A
硫酸铬 Chromium sulfate	100		N	B		A	A	A	A		N	A



液体 Liquids			电极材料 Electrode materials					衬里材料 Liner materials				
名称 Name	浓度% Concentration%	温度℃ Temperature °C	不锈钢 S/S	哈氏合金 C Hastelloy Alloy C	钛 Titanium	钽 Tantalum	铂 Platinum	聚四氟乙烯 Teflon	PFA	聚氨酯橡胶 Polyurethane rubber	氯丁橡胶 Neoprene	陶瓷 Ceramics
柠檬酸 Citric acid	5~25	R~S	A	A	A	X	A	A			A(M)	A
	50	R	A	A	A	X	A	A			A	A
	50	S	A	A	B	X	A	A			A(M)	A
粘土浆 Slurry			N	B		A	A	A		B	A	
氯化铜（二价） Copper chloride	20~50	R	N	A	B	A	N	A	A	A	A	A
	sat	S	N	N	B	N	N	A	A		A(M)	A
水煤浆 Coal+water slurry			A	A		A	A	B		A	A	
氰化铜 Copper cyanide	100		B	B		A	A	A	A		A	A
氟化铜 Copper fluoride	100		N	N		N	A		A			
硝酸铜 Copper nitrate	50		N	N	B	A	A	A	A			A
硫酸铜 Copper sulfate	5~50	R~S	B	B	B	A	A	A		A(M)	A(M)	A
	50~sat	R~S	B	B	B	X	A	A		A(M)	A(M)	A
氯氧化铜 Copper oxychloride	100		N	N	N	N	A	A	A			A
硫化铜 Copper chloride	100		B	B		A	N		A			A
氰化物 Cyanide	10	R	A		N	A		A			A	A
乳制品 Dairy products			A	A		A	A	B		N	N	
二氯乙烯 Dichloroethylene	100	50~S	B	A	A	X		A			N	A
二氯乙烷 Dichloro ethane		R~S	B	A	A	X		A			N	A
二氧己环，二氧杂环己烷 Dioxane				A	A	X		A			N	A
二氯甲烷 Dichloromethane		R~S										
二苯基，联二苯 Diphenyl			B	A	A	X		A			N	A
染料 Dynes			A	A		A	A	A		N	N	
乙醚 Ether		R	A	A	A	X	A	A	A		N	A
乙酸乙酯 Ethyl acetate		R	A	A	A	X	A	A	A		N	A
乙醇（酒精） Ethyl alcohol		R	A	A	A	X	A	A	A		A	A
氯乙烷（乙基氯） Ethyl chloride		R	B	A	A	X		A			N	A
脂肪酸 Fatty acid	100	R	A	A	A	X	A	A			B	A
	100	S	B	A	A	X	A	A			N	A
	100	135	A	A	A	X	A	A			B(M)	A
	100	315	A	B	A	X	A	A				A



液体 Liquids			电极材料 Electrode materials					衬里材料 Liner materials				
名称 Name	浓度% Concentration%	温度℃ Temperature °C	不锈钢 S/S	哈氏合金 C Hastelloy Alloy C	钛 Titanium	钽 Tantalum	铂 Platinum	聚四氟乙烯 PFA Teflon		聚氨酯橡胶 Polyurethane rubber	氯丁橡胶 Neoprene	陶瓷 Ceramics
氯化铁 Ferric chloride	10~sat	R~S	N	A	A	A	N	A	A		B(M)	A
硝酸铁 Ferric nitrate	100		N	B		A	A	A	A			A
高氯化铁（二价）， Ferric(II), perchloride	30~50	R~50	A	A	A	A		A			A(M)	A
	10~sat	100~S	A	A	A	A		A			N	A
高氯化铁（三价） Ferric(III), perchloride	5~15	25	N	A	A	A		A	A		A	A
	45	25	N	B	A	A		A			A	A
	10	65	N	B	A	A		A			A(M)	A
	50	50~S	N	N	A	A		A			A(M)	A
硫酸亚铁（二价） Ferrous(II), Sulfate	10	R	A	A	A	A	A	A			A	A
	所有 All	S	A	A	A	X	A	A			(AM)	A
硫酸亚铁（三价） Ferrous(III), Sulfate		R	A	A	A	X	A	A			A	A
	到 30 to 30	到 65 to 65	A	A	A	X	A	A			A(M)	A
盐酸 Hydrochloric acid 哈氏合金包括 B	0.5~5	R	N	X	A	A	A	A	A		B	A
	10~20	R	N	B	A	A	X	A	A		B	A
	37	R	B	N	N	A	X	A	A		B	A
	10	50	N	B	N	A	A	A	A		B	A
	5	60	N	N	A	A	A	A	A		B	A
	0.5~5	S	N	N	A	X	A	A	A		N	A
	10~37	S	N	N	N	X	X	A	A		N	A
硫化铁 Ferric sulfide	100		N	B		A	A	A	A		A	A
硝酸亚铁 Ferrous nitrate		R	N	N		A	A	A			A	A
硫酸铁 Ferric sulfate			N	B		A	A	A			B	
氟硅酸 Fluosilicic acid	10~40	R~30	N	N	N	N	A	A	B			A
氟硼酸 Fluorboric acid	100		N	N	N	N	A		B			
甲醛 Formaldehyde		R~S	N	B	A	A	A	A	A	N	B(M)	A
甲酸 Formic acid	10~50	R	N	A	A	A	A	A	A	N	B	A
	10~50	65	N	B	A	A	A	A	A	N	B(M)	A
	60	65	N	B	B	A	A	A	A	N	B(M)	A
	50~100	S	N	N	N	A	A	A	A	N	N	A
葡萄糖浆 Glucose syrup			A	A		A	A	A	A	A	A	A
甘油，丙三醇 Glycerin	100	R~S	A	A	A	A	A	A	A	A(M)	A(M)	A



液体 Liquids			电极材料 Electrode materials					衬里材料 Liner materials				
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(造纸) 绿浆 Green liquid			A	A		A	A	A	A		N	A
氢氰酸 Hydrocyanic acid	100	R	B	B	A	A	A	A	A	N	B	A
溴化氢 Hydrogen bromide		R	A	A	A	X	A	A	A		B	A
硫化氢 Hydrogen sulfide		R	A	A	A	X	A	A	A		B	A
		100	A	A	A	X	A	A	A		N	A
氢溴酸 Hydrobromic acid	~50	S	N	N		A	N	A	A		B	A
氢氟酸 Hydrofluoric acid	1~50	R~50	N	N	N	N	A	A	A		N	A
	98~100		N	N	N	N	A	A	A		N	B
氟硅酸 Hydrofluosilicic acid	35		N	B		N	A	A				
过氧化氢 Hydrogen peroxide	5~50		B	B		A	A	A		N		
羟基乙酸 Hydroxy-acetic acid	35		B	B		A	A	A				B
	50		B	B		A	A	A				A
次氯酸 Hypochlorous acid	10~20		N	B		A	N	A	A			A
氢化氟硅酸 Hydrogenated fluosilicic acid	35		N	B		N	A		A			A
			N	B		N	A		B(35℃)			A
乳酸 Lactic acid	1.5~10	R	A	A	A	X		A			B	A
	1.5~10	S	N	A	A	X		A			B(M)	A
	Sat	S	N	N	A	A		A			B(M)	A
石灰浆 Lime slurry			N	B		A	A	A			A	A
石灰石浆 Lime stone slurry			N	B		A	A	A		A	A	
氯化锂 Lithium chloride	100		N	B	A	A	A	A				
乙酸铅 Lead acetate		R	N	N		A	N	A	A	A		A
碳酸镁 Magnesium Carbonate	100		N	B	A	A	A	A	A			A
亚硫酸氢镁 Magnesium bisulfite	100		B	B		A	N	A				A
氯化镁 Magnesium chloride	10~30	R	N	B	B	A	A	A	A		A	A
	20~42	S	N	B		X	A	A			A	A
氢氧化镁 Magnesium hydroxide	100		N	N		N	A	A	A			A
硝酸镁 Magnesium nitrate	100		N	B	B	A	A	A	A			A
马来酸 Maleic acid (顺丁烯二酸, 缩苹果酸)	10~50	R	A	A	A	X		A			A	A
		S	A	A	A	X		A			B(M)	A
硫酸镁 Magnesium sulfate	10~100	R~S	B	N	A	A	A	A			A	A

液体/Liquids			电极材料Electrode materials					衬里材料Liner materials				
名称 Name	浓度% Concentration%	温度℃ Temperature °C	不锈钢 S/S	哈氏合金 C Hastelloy Alloy C	钛 Titanium	钽 Tantalum	铂 Platinum	聚四氟乙烯 Teflon	PFA	聚氨酯橡胶 Polyurethane rubber	氯丁橡胶 Neoprene	陶瓷 Ceramics
二氧化锰 Manganous chloride	5~50	~100	B	A	A	X		A			A(M)	A
硫酸锰 Manganous sulfate	Sat	R	B	B	B	X	A	A			A	A
氯化汞 Mercuric chloride			N	N		A	A	A				
汞, 水银 Mercury		20~50	B	A	A	X	A	A			A	A
		S	B	B	B	X	A					A
甲醇, 木酒精	100	R	A	A	A	X	A	A	A		A	A
Methanol, Methylic Alcohol	100	S	B	A	B	X	A	A	A		N	A
糖浆 Molasses			A	A		A	A		A	N	N	
钻井泥浆 Mud drilling			A	A		A	A		N	A	N	
一氯乙酸 一氯醋酸 Monchloracetic acid	50~100	R	B	A	A	X	A	A			N	A
	70~100	S	N	A	A	X		A			N	A
萘 Naphthalene		R	A	A	A	X		A	A		N	A
富马松香胶 Neuphor			A	A		A	A	A			N	
氯化镍 Nickel chloride	10~20	R~60	N	B	A	A	A	A	A	A(M)	A(M)	A
	30~80	95~S	N	N	A	A	A	A	A	A(M)	A(M)	A
硝酸镍 Nickel nitrate		R	N	N		A	A	A	A		A	A
硫酸镍 Nickel sulfate		80	N	N		A	A	A		A(M)	A(M)	A
硝酸 Nitric acid	7~65	R	X	X	X	A	A	A	A		B	
	7~65	S	X	N	X	A	A	A	A		N	
	100	R	N		X	A	A	A	A		N	
	100	50~S			X	A	A	A	A		N	
氢氧化镁 Magnesium hydroxide	100		N	N		N	A	A	A			A
硝基(代)苯 Nitro benzene				A	A	X	A	A	A		N	A
草酸 Oxalic acid	5~10	R	A	A	A	X	A	A			A	A
	25~50	R		A	A	X	A	A			B	A
	Sat	R		N	B	X	A	A		N	N	A
	5~Sat	S	N	N	N	X	A	A		N	N	A
液态臭氧 Ozone				B	A	X	A	A	A		B	A
纸浆 Paper stock		R~S	B	A	A	A	A	A			N	A
高氯酸 Perchloric acid	50~70		N	N	B	A	A	A	A			A
高氯化乙烯 Perchloroethylene		R~S	B	A	A	X	A	A			N	A



液体 Liquids			电极材料 Electrode materials					衬里材料 Liner materials				
名称 Name	浓度% Concentration%	温度℃ Temperature °C	不锈钢 S/S	哈氏合金 C Hastelloy Alloy C	钛 Titanium	钽 Tantalum	铂 Platinum	聚四氟乙烯 Teflon	PFA	聚氨酯橡胶 Polyurethane rubber	氯丁橡胶 Neoprene	陶瓷 Ceramics
酚 Phenol	纯Pure	R~S	A	A	A	X	A	A			N	A
磷酸 Phosphoric acid	1~30	R	X	X	X	A	A	A	A		A	A
	45~Sat	R	B	X	B	A	A	A	A		A	A
	80~Sat	140~150	N	N	N	A	A	A	A		A(M)	A
硫酸铝钾 Potassium aluminum sulfate	100		B	N	A	A	A	A	A			A
碳酸钾 Potassium carbonate	100		B	B		A	A	A	A			
氯化钾 Potassium chloride	10~Sat	R~S	B	N	A	A	A	A	A	A(M)	A(M)	A
氰铁酸钾 Potassium ferricyanite	100		N	N		B	N	A	A			A
氰亚铁酸钾 Potassium ferrocyanite	100		N	N		B	N	A	A			A
氰化钾 Potassium cyanide	10	R	A		N	X	A	A			A	A
碳酸氢钾 Potassium dicarbonate	100		B	B		A	A		A			A
重铬酸钾 Potassium dichromate	100		B	N		A	A	A	A			A
氢氧化钾 Potassium hydroxide	10~20	R	A	X		N	A	A	A		A	A
	20~50	R	B	X	N	N	A	A	A		A	B
	10~50	S	B	X		N	A	A	A		A	B
次氯酸钾 Potassium hypochlorite		R~150	N	A	A	X		A			N	A
硝酸钾 Potassium nitrate	20~50	R~S	A	A	A	X	A	A			A(M)	A
	80~Sat		N	A	A	X	A	A	A		A(M)	A
过氯酸钾 Potassium perchlorate	25~75	25		A	A	X		A			A	A
高锰酸钾 Potassium permanganate	各种Various	R~S	N	N	B	B	A	A	A		B(M)	A
过硫酸钾 Potassium persulfate			N	N	A	A	A	A	A			A
硫酸钾 Potassium sulfate	10~20	R~50	A	A	A	A	A	A			A(M)	A
	100		B	N	B	A	A	A	A			A
吡啶，氮（杂）苯 Pyridine C ₅ H ₅ N	50~100	R~S	A	A	A	A		A			N	A
污水 Sewage(Raw)				A	A	A	A	A		A	A	
海水 Sea water		R	B	A	A	A	A	A			N	A
硝酸银 Silver nitrate	到 50 to 50		N	B	N	B	A	A		A	A	A
污泥 Sludge			A	A	A	A	A	A		N	B	
乙酸钠 Sodium acetate	到 100 to 100		N	N	A	A	A	A				A



液体 Liquids			电极材料 Electrode materials					衬里材料 Liner materials				
名称 Name	浓度% Concentration%	温度℃ Temperature °C	不锈钢 S/S	哈氏合金 C Hastelloy Alloy C	钛 Titanium	钽 Tantalum	铂 Platinum	聚四氟乙烯 Teflon	PFA	聚氨酯橡胶 Polyurethane rubber	氯丁橡胶 Neoprene	陶瓷 Ceramics
碳酸氢钠 Sodium bicarbonate	10~20	R~S	A	A	A	A	A	A			A(M)	A
	到 100 to 100	R~S	N	N	B	A	A	A	A		A(M)	A
硼酸钠 Sodium borate			N	N		A	A	A	A			A
溴化钠 Sodium bromide			N	N		A	A	A	A			A
硫酸氢钠 Sodium bisulfate	10~Sat	R~S	N	N		A	A	A	A			A
二硫化钠 Sodium bisulfide			B	N		A	A	A				
亚硫酸氢钠 Sodium bisulfite	50	R~S	N	B		A	A	A			A	A
碳酸钠 Sodium carbonate	10~Sat	R~S	B	B	A	X	A	A	A		A(M)	A
氯酸钠 Sodium chlorate	5	R		A	A	A	A	A		A	A	A
	5	S		A	A	X	A	A			A(M)	A
氯化钠 Sodium chloride	纯Pure	R~S	B	A	A	X	A	A			A(M)	A
亚氯酸钠 Sodium chlorite	5~10	R	A	A	A	A	N	A			N	A
	5	S	N	A	A	X	N	A			N	A
铬酸钠 Sodium chromate	到 40 to 40		N	N	A	A	N	A	A			
氰化钠 Sodium cyanide	到 100 to 100		N	N	A	A	N	A	A			A
重铬酸钠 Sodium dichromate	100		N		A	A	N	A	A			A
氰铁酸钠 Sodium ferricyanide			N			B	N	A	A			A
氰亚铁酸钠 Sodium ferrocyanide			N			B	N	A				
氟化钠 Sodium fluoride			N	N		N	A	A				
氢硫化钠 Sodium hydrosulfide			B	B		A	A	A				
氢氧化钠 Sodium hydroxide	10~20	R	A	N	A	N	A	A	A		A	A
	34~50	R	B	N	A	N	A	A	A		A	
	10~20	~150	N	N	A	N	A	A	A		A(M)	
	30~50	70~150	N	N	B	N	A	A	A		A(M)	
	50	180	N	N	B	N	A	A	A		A(M)	
	60~100	~150	N	N	B	N	A	A	A		A(M)	
硫酸氢钠 Sodium hydrogensulfate	100		N	N	A	A	A	A	A			A
二硫化钠 Sodium bisulfide			B	N		A	A	A				
亚硫酸氢钠 Sodium hydrogensulfite	100		B	N		A	A	A	A			



液体 Liquids			电极材料 Electrode materials					衬里材料 Liner materials				
名称 Name	浓度% Concentration%	温度℃ Temperature °C	不锈钢 S/S	哈氏合金 C Hastelloy Alloy C	钛 Titanium	钽 Tantalum	铂 Platinum	聚四氟乙烯 Teflon	PFA	聚氨酯橡胶 Polyurethane rubber	氯丁橡胶 Neoprene	陶瓷 Ceramics
次氯酸钠 Sodium hypochloride *浓度单位为: g C/L	10*	R		A	A	A	A	A			B	A
	10*	50		A	A	X	A	A			N	A
	20*	R		A	A	X	A	A			B	A
	20*	40		B	A	X	A	A			N	A
硝酸钠 Sodium nitrate		R	N	N	A	A	A	A			A	A
		~100	N	N	A	A	A	A			N	A
亚硝酸钠 Sodium nitrite		40~100	N	N	A	A	A	A			A(M)	A
过氧化钠 Sodium Peroxide	10	R~S	A	A	N		A	A			A(M)	A
硅酸钠 Sodium silicate	100		N	N	A	A	A	A	A			A
硫酸钠 Sodium sulfate	~Sat	R	A	A	A	A	A	A	A		B	A
	~Sat	S	N	N	N	A	A	A	A		B(M)	A
硫化钠 Sodium sulfide	~Sat	R	A	A	A	A	A	A	A		B	A
	25~50	S	N	N	N	A	A	A	A		B(M)	A
亚硫酸钠 Sodium sulfite	25~100	R~S	N	N		A	A	A	A		B(M)	A
四硼酸钠 Sodium tetraborate			N	B		A	A	A	A			A
硫代硫酸钠 Sodium thiosulfate	25	R	A	A		A	N	A			B	A
	25~100	S	N	A		N	N	A			B(M)	A
硫酸 Sulfuric acid	2~5	R	N	X	X	A	A	A	A		A	A
	10	R	N	X	X	A	A	A	A		N	A
	25~60	R	N	X	B	A	A	A	A		N	A
	70~85	R	N	X	N	A	A	A	A		N	A
	90~96	R	X	X	N	A	A	A	A		N	A
	2~5	150	N	N	X	N	A	A	A		A(M)	A
	5~60	180	N	N	N	N	A	A	A		N	A
	77~96	150	N	N	N	N	A	A	A		N	A
一氯化硫 Sulfur monochloride		R~S	B	A	N	X		A			N	A
亚硫酸 Sulfurous acid	10~Sat	R	N	N	N	A	A	A	A		N	A
鞣酸, 丹宁酸 Tannic acid	10~50	R~S	A	A	A	X	A	A	A		B(M)	A
酒石酸 Tartaric acid	~100	R	A	A	A	X	A	A	A		A	A
	~100	S	N	B	A	X	A	A	A		A(X)	A



名称 Name	浓度% Concentration%	温度℃ Temperature °C	不锈钢 S/S	哈氏合金 C Hastelloy Alloy C	钛 Titanium	钽 Tantalum	铂 Platinum	聚四氟乙烯 Teflon	PFA	聚氨酯橡胶 Polyurethane rubber	氯丁橡胶 Neoprene	陶瓷 Ceramics
氯化锡 Tin chloride	~100	R	B	A	A	X		A	A		A	A
	~100	150	N	A	A	X		A	A		N	A
二氯化锡 Tin dichloride	100		N	N		X	A	A	A		N	A
二氧化钛 Tintanium dioxide			A	A		A	A	A		N	N	
三氯乙烯 Trichloroethylene		R	B	A	A	A		A			N	
磷酸三钠 Trisodium phosphate			B	N	A	A	A	A				A
尿素 Urea	50		A	A			A	A		N	N	
尿酸 Uric acid		R	A	A		X	A	A			A	A
造纸白液 White liquid			N	N		A	A	A			B	
氯化锌 Zinc chloride	10~60	R	B	A	A	A		A	A		A	A
	10~20	S	B	A	A	A	A	A	A		A(M)	A
	50~60	S	B	B	B	A		A	A		A(M)	A
	100	S	N	B	N			A	A		A(M)	A
硫酸锌 Zinc sulfate			B	B		A	A	A		N	A	

符号说明：A-适用；B-可用，寿命短；N-不能用；X-耐腐蚀，但不推荐；空白-无数据；R-室温；S-沸点；Sat-饱和；(M)-决定于衬里最高耐温
 Symbols definition: A means applicable; B means usable, but short life; X means corrosion resistant but not recommended; N means not usable; Blank means no data; R means room temperature; S is the boiling point; Sat is saturation; M is determined by the maximum temperature resistance of the lining.