Wetting Parts Material Selection Guide for Toshiba's Magmeter

<NOTICES>

(1) This data sheet can use for your reference only. It took from a laboratory.

(2) TOSHIBA never has a responsibility for any omissions, errors and troubles even though you chose a data by referring this chart.
This means TOSHIBA does not have a liability for any damages and human injury that result from the use of its products in accordance with information provided by TOSHIBA, either verbal or written.

(3) TOSHIBA recommends to choose rank "E" only because the thickness of wetting parts such as electrode and grounding ring may not be enough to satisfied with your required corrosion resistance.
Especially, the material of Tantalum and Platinum-Iridium are required to notice when you choose them.
Need to contact TOSHIBA when the rank is "G" .
The rank "S" and "U" are not able to choose for the magmeter's material.

(4) Columns of Ceramic shows a combination of alumina ceramic material and its shealing material like O-rings along with gaskets.
The silicon rubebr is used for Sanitary ceramic type LF490.

<Valuation>

Metals

E	Excellent	E ≦ 0.05 mm / year
G	Good	G ≦ 0.5 mm / year
S	Satisfactory	S ≦ 1.28 mm /year
U	Unsatisfactory	U ＞ 1.28 mm /year
Blank	No information	

Liners

OK	Available to choose up to the magmeter's specification.
NG	Unbale to choose.
UN	Unknown. Avoid to choose.

＊Liners selection table for Magmeter series

	Liners							
	Ceramic		Rubber			Teflon		
	for ALKALINE resistance (fruoric rubber)	for ACIDITY resistance (fruoric rubber)	Ethylene-propylene rubber (EPDM)	Chloroprene (CR)	Polyurethane (PU)	Teflon PFA	Teflon PTFE	Teflon FEP
LF4**	○	○	○	×	×	○	×	×
GF63*	×	×	×	○	○	×	○	○

Max limit Temperatrure of Liners

Liner	Temperature Limit
Ceramic	356°F (180℃)
PTFE,PFA	248°F (120℃)
FEP	212°F (100℃)
PU,CR	140°F (60℃)

Chemical information and characteristic		Liners								Metals (Electrode and Grounding ring)						
		Ceramic		Rubber			Teflon									
NAME	**concentration**	for ALKALINE resistance (fluoric rubber)	for ACIDITY resistance	Ethylene-propylene rubber (EPDM)	Chloroprene (CR)	Polyurethane (PU)	Teflon PFA	Teflon PTFE	Teflon FEP	316 stainless steel	Titanium	Hastelloy-C	Tantalum	Platinum-Iridium alloy	Chemical formula	NOTE
Liquid name	(%)	Valuattion								Valuation / Temp. degree F (degree C)						
acetaldehyde	75	NG	NG	NG		NG	OK	OK	OK		E / 300 (149)					
	98	NG	NG	NG		NG	OK	OK	OK			E / 135 (57)				
	100	NG	NG	NG		NG	OK	OK	OK	E / 150 (66)	E / 300 (149)		G / 90 (32)			
acetamide	100	UK	NG	NG		UN	OK	OK	OK	G / 340 (171)						
acetic acid	5	NG	NG	NG		NG	OK	OK	OK		G / 246 (119)					
	10	NG	NG	NG		NG	OK	OK	OK	G / 68 (20)						
	99.9	NG	NG	NG		NG	OK	OK	OK			E / 246 (119)				
	100	NG	NG	NG		NG	OK	OK	OK				E			
acetic anhydride	99.5	NG	NG	UN		NG	OK	OK	OK		E / 284 (140)					
	100	NG	NG	UN		NG	OK	OK	OK	G / 68 (20)		E / 284 (140)	E / 90 (32)	E		
acetic ester	100	NG	NG	UN		NG	OK	OK	OK							
acetone	100	NG	NG	NG		NG	OK	OK	OK	E / 400 (204)	E / 190 (88)	E / 135 (57)	E / 300 (149)			
acetone chloride	100	NG	NG	NG		UN	OK	OK	OK							
acetophenone	100	NG	NG	NG		UN	OK	OK	OK	G / 350 (177)	G / 200 (93)		G / 80 (27)			
acetylene	100	UN	UN	NG		UN	OK	OK	OK	E / 400 (204)	G / 90 (32)		G / 90 (32)			
acrylonitrile	100	NG	UN	NG		UN	OK	OK	OK	G / 210 (99)	G / 200 (93)		G / 210 (99)			
adipic acid	100	NG	NG	UN		UN	OK	OK	OK	G / 210 (99)	E / 450 (232)		G /210 (99)			
alum	10	OK	UN	UN		UN	OK	OK	OK			G / 174 (79)				
aluminium bromide	100	OK	UN	UN		UN	OK	OK	OK							
aluminium fluoride	10	OK	UN	UN		UN	OK	OK	OK			G / 75 (24)				
	100	OK	UN	UN		UN	OK	OK	OK		E / 77 (25)					
aluminium nitrate	100	OK	UN	NG		OK	OK	OK	OK		E / 77 (25)					
aluminium potassium sultate	10	OK	UN	UN		UN	OK	OK	OK			G / 174 (79)				
	100	OK	UN	UN		UN	OK	OK	OK	U	E / 200 (93)		G / 210 (99)			
aluminium sodium sulfate	10	OK	UN	UN		UN	OK	OK	OK			G / B.P				
aluminium sulfate	10	OK	UN	NG		OK	OK	OK	OK	G / 68 (20)		G / 176 (80)				
	20	OK	UN	NG		OK	OK	OK	OK			E / 130 (54)				
	100	OK	UN	NG		OK	OK	OK	OK		E / 77 (25)		E			
aluminum acetate	100	NG	NG	NG		UN	OK	OK	OK	G / 68 (20)		G / B.P				
aluminum chloride	10	OK	UN	NG		UN	OK	OK	OK		E / 212 (100)					
	25	OK	UN	NG		UN	OK	OK	OK	E / 50 (10)	U / 212 (100)					
	100	OK	UN	NG		UN	OK	OK	OK			U / 360 (182.7)	E	E		
aluminum fluoro sulfate	15	UN	UN	UN		UN	OK	OK	OK			S / 180 (82)				
amine hydrochloride	30	UK	NG	UN		UN	OK	OK	OK			U / 289 (143)				
aminobenzene	100	UK	NG	UN		UN	OK	OK	OK							
ammonia	20	UK	NG	NG		UN	NG	OK	OK							
	27	UK	NG	NG		UN	NG	OK	OK	E / 185 (85)		E / 185 (85)				
	100	UK	NG	NG		UN	NG	OK	OK		G / 104 (40)					
ammonium acetate	100	NG	NG	UN		UN	OK	OK	OK	G / 400 (204)		G / 75 (24)	G / 200 (93)			
ammonium bifluoride	10	NG	NG	UN		UN	OK	OK	OK			E / 77 (25)				
	50	NG	NG	UN		UN	OK	OK	OK			G / 77 (25)				
	100	NG	NG	UN		UN	OK	OK	OK							
ammonium bromide	10	NG	NG	UN		UN	OK	OK	OK			G / 75 (24)				

Chemical information and characteristic		Liners								Metals (Electrode and Grounding ring)						
		Ceramic		Rubber			Teflon									
NAME	**concentration**	for ALKALINE resistance (fluoric rubber)	for ACIDITY resistance	Ethylene-propylene rubber (EPDM)	Chloroprene (CR)	Polyurethane (PU)	Teflon PFA	Teflon PTFE	Teflon FEP	316 stainless steel	Titanium	Hastelloy-C	Tantalum	Platinum-Iridium alloy	Chemical formula	NOTE
Liquid name	(%)	Valuattion								Valuation / Temp. degree F (degree C)						
ammonium carbonate	40	OK	UN	NG		UN	OK	OK	OK			E / B.P				
	50	OK	UN	NG		UN	OK	OK	OK			G / B.P				
	100	OK	UN	NG		UN	OK	OK	OK	S / 68 (20)						
ammonium chloride	26	NG	NG	NG		UN	OK	OK	OK	G / 180 (82)	E / 210 (99)		E / 210 (99)			
	40	NG	NG	NG		UN	OK	OK	OK			E / 216 (102)				
	100	NG	NG	NG		UN	OK	OK	OK		E / 212 (100)	G / B.P	E	E		
ammonium dichloride	100	UN	UN	UN		UN	OK	OK	OK			U / 100 (38)				
ammonium dihydrogenphosphate	27	NG	NG	NG		UN	OK	OK	OK			E / 82 (28)				
ammonium fluoride, acidic	10	UN	UN	UN		UN	OK	OK	OK			E / 77 (25)				
	50	UN	UN	UN		UN	OK	OK	OK			G / 77 (25)				
ammonium hexafluorosilicate	18	NG	NG	UN		UN	OK	OK	OK			E / 109 (43)				
ammonium hydrogen fluoride	10	NG	NG	UN		OK	OK	OK	OK			E /77 (25)				
	50	NG	NG	UN		OK	OK	OK	OK			E /77 (25)				
	100	NG	NG	UN		OK	OK	OK	OK							
ammonium hydrogen sulfite	100	UN	UN	UN		UN	OK	OK	OK			E / 162 (72)				
ammonium hydroxide	27	UK	UK	UN		OK	OK	OK	OK	E / 90 (32)	E / 77 (25)	E/ 194 (90)	E / 300 (149)			
	88	UK	UK	UN		OK	OK	OK	OK			G / 248 (120)				
ammonium nitrate	10	UN	UN	NG		NG	OK	OK	OK			E / 75 (24)				
	28	UN	UN	NG		NG	OK	OK	OK		E / B.P					
	100	UN	UN	NG		NG	OK	OK	OK				E / 210 (99)			
ammonium oxalate	10	UN	UN	UN		UN	OK	OK	OK	G / 400 (204)	E / 80 (27)	E / 75 (24)	E / 80 (27)			
ammonium perchlorate	20	OK	UN	UN		UN	OK	OK	OK		E / 190 (88)					
	100	UN	UN	UN		UN	OK	OK	OK			G / 160 (71)				
ammonium peroxodisulfate	10	UN	UN	UN		UN	OK	OK	OK			E / 75 (24)				
	100	UN	UN	UN		UN	OK	OK	OK					E		
ammonium persulfate	5	UN	UN	UN		NG	OK	OK	OK		E / 90 (32)					
	10	UN	UN	UN		NG	OK	OK	OK			E / 75 (24)				
	100	UN	UN	UN		NG	OK	OK	OK					E		
ammonium persulfuric acid	100	UN	UN	UN		UN	OK	OK	OK							
ammonium phosphate	5	OK	UN	UN		UN	OK	OK	OK			E / 75 (24)				
	10	OK	UN	UN		UN	OK	OK	OK		E / 77 (25)		E / 300 (149)			
ammonium silicofluoride	18	NG	NG	UN		UN	OK	OK	OK			E / 109 (43)				
ammonium sulfate	10	NG	NG	NG		UN	OK	OK	OK		E / B.P					
	100	NG	NG	NG		UN	OK	OK	OK	G / 68 (20)		G / B.P	E			
ammonium sulfide	100	UN	UN	UN		UN	OK	OK	OK	G / 390 (199)			G / 80 (27)			
ammonium sulfite	100	OK	UN	UN		UN	OK	OK	OK	G / 68 (20)			E / 210 (99)			
ammonium thiosulfate	100	OK	UN	UN		UN	OK	OK	OK							
ammouium fluoride	10	UN	UN	UN		UN	OK	OK	OK	G / 90 (32)	G / 77 (25)		U			
	25	UN	UN	UN		UN	OK	OK	OK	U			U			
	45	UN	UN	UN		UN	OK	OK	OK			E / 266 (130)				
amyl acetate	100	NG	NG	NG		UN	OK	OK	OK	E / 300 (149)	E / 210 (99)		G / 300 (149)			
amyl alcohol	100	OK	UN	NG		UN	OK	OK	OK	G / 400 (204)	G / 200 (93)		G / 320 (160)			
amyl boric acid	100	OK	UN	UN		UN	OK	OK	OK							
amyl chloride	100	OK	UN	UN		UN	OK	OK	OK	G / 250 (121)		E / 86 (30)	G / 300 (149)			

Chemical information and characteristic		Liners								Metals (Electrode and Grounding ring)						
		Ceramic		Rubber			Teflon									
NAME	**concentration**	for ALKALINE resistance (fluoric rubber)	for ACIDITY resistance	Ethylene-propylene rubber (EPDM)	Chloroprene (CR)	Polyurethane (PU)	Teflon PFA	Teflon PTFE	Teflon FEP	316 stainless steel	Titanium	Hastelloy-C	Tantalum	Platinum-Iridium alloy	Chemical formula	NOTE
Liquid name	(%)	Valuattion								Valuation / Temp. degree F (degree C)						
amyl chloronaphthalene	100	UN	UN	NG		UN	OK	OK	OK							
amyl naphthalene	100	UN	UN	NG		UN	OK	OK	OK							
aniline	100	NG	NG	NG		UN	OK	OK	OK	E / 500 (260)	E / 210 (99)	E / 75 (24)	G / 210 (99)			
aniline hydrochloric acid salt	100	UK	UK	NG		UN	OK	OK	OK							
antimony chloride	50	UK	UK	UK		UN	OK	OK	OK			E / 171 (77)				
	100	UK	UK	UK		UN	OK	OK	OK	U				U		
antimony pentachloride	50	UK	UK	UK		UN	OK	OK	OK			E / 160 (71)				
	100	UK	UK	UK		UN	OK	OK	OK	U				U		
aqua regia	-	NG	NG	NG		NG	OK	UK	NG	U / 68 (20)	U / 68 (20)	U / B.P	E / 212 (100)	U / 68 (20)		
arsenic	100	OK	UK	UK		UN	OK	UK	UK				E			
arsenic acid	90	OK	UK	UK		UN	OK	OK	OK				G / 220 (104)			
	100	OK	UK	UK		UN	OK	OK	OK	G / 400 (204)						
arsenic III oxide	100	OK	UK	UK		UN	OK	OK	OK							
arsenous acid	100	OK	UK	UK		UN	OK	OK	OK							
barium chloride	20	OK	OK	NG		UN	OK	OK	OK		E / 212 (100)					
	25	OK	OK	NG		UN	OK	OK	OK			E / B.P				
barium hydroxide	100	OK	UN	NG		UN	OK	OK	OK	S / 203 (95)	E / 77 (25)	G / 203 (95)	E / 212 (100)			
barium nitrate	10	OK	UN	UN		UN	OK	OK	OK		E / 77 (25)					
	100	OK	UN	UN		UN	OK	OK	OK				E / 210 (99)			
barium peroxide	100	OK	UN	UN		UN	OK	OK	OK							
barium sulfate	100	OK	UN	NG		OK	OK	OK	OK	G / 210 (99)	E / 210 (99)		G / 210 (99)			
benzaldehyde	100	OK	UN	NG		UN	OK	OK	OK	G / 400 (204)	G / 100 (38)		G / 210 (99)			
benzene	100	OK	UN	NG		NG	OK	OK	OK		E / 77 (25)	G / 176 (80)				
benzene bromide	100	OK	UN	UN		UN	OK	OK	OK							
benzene chloride	100	OK	UN	NG		UN	OK	OK	OK							
benzene fluoride	100	OK	UN	UN		UN	OK	OK	OK							
benzene sulfonic acid	100	UN	UN	UN		UN	OK	OK	OK							
benzine(naphtha)	100	OK	UN	NG		UN	OK	OK	OK							
benzoic acid	10	NG	NG	NG		UN	OK	OK	OK			E / 75 (24)				
	100	NG	NG	NG		UN	OK	OK	OK		E / 77 (25)		E			
benzyl alcohol	100	OK	UN	NG		UN	OK	OK	OK	E / 400 (204)	G / 210 (99)		G / 210 (99)			
benzyl chloride	100	OK	UN	NG		UN	OK	OK	OK	G / 210 (99)			G / 230 (110)			
benzylidene benzoic acid	100	NG	NG	NG		UN	OK	OK	OK							
bleach liquor	100	OK	UN	UN		UN	OK	OK	OK			E / 126 (52)				
borax	100	OK	UN	UN		OK	OK	OK	OK	E / 400 (204)	G / 190 (88)		U			
boric acid	100	OK	UN	NG		UN	OK	OK	OK	G / 212 (100)	E / 77 (25)	E / 363 (184)				
boron trichloride	100	UN	UN	UN		UN	OK	OK	OK							
brine	100	OK	UN	UN		NG	OK	OK	OK			E / 244 (118)	U			
bromic acid	100	OK	UN	UN		UN	OK	OK	OK							
bromine	100	UN	OK	NG		NG	OK	OK	OK			E / 151 (66)				
bromine water	100	OK	UN	UN		UN	OK	OK	OK	U	U		E / 560 (293)			
butadiene	100	OK	UN	NG		UN	OK	OK	OK	G / 400 (204)			G / 80 (27)			
butane	100	OK	UN	NG		OK	OK	OK	OK	G / 300 (149)	E / 80 (27)		E / 80 (27)			
butyl acetate	100	NG	NG	NG		NG	OK	OK	OK	E / 219 (104)		E / 219 (104)				

Chemical information and characteristic		Liners								Metals (Electrode and Grounding ring)						
		Ceramic		Rubber			Teflon									
NAME	**concentration**	for ALKALINE resistance (fluoric rubber)	for ACIDITY resistance	Ethylene-propylene rubber (EPDM)	Chloroprene (CR)	Polyurethane (PU)	Teflon PFA	Teflon PTFE	Teflon FEP	316 stainless steel	Titanium	Hastelloy-C	Tantalum	Platinum-Iridium alloy	Chemical formula	NOTE
Liquid name	(%)	Valuattion								Valuation / Temp. degree F (degree C)						
butyl acrylic acid	100	NG	NG	NG		UN	OK	OK	OK							
butyl alcohol	100	OK	UN	NG		UN	OK	OK	OK	E / 400 (204)	G / 200 (93)		G / 80 (27)			
butyl cellulose	100	OK	UN	UN		UN	OK	OK	OK							
butyl phthalic acid	100	UK	UK	NG		UN	OK	OK	OK							
butyl stearate	100	UN	UN	UN		UN	OK	OK	OK	G / 150 (66)						
butyl aldehyde	100	NG	NG	NG		UN	OK	OK	OK							
butyl amine	100	NG	NG	NG		UN	OK	OK	OK							
butyric acid	100	UK	UK	UK		UN	OK	OK	OK	G / 400 (204)	E / 77 (25)	E / 325 (163)	G / 300 (149)			
calcium carbonate	89	OK	UK	UK		UN	OK	OK	OK			E / 117 (47)				
calcium carbonate	100	OK	UK	UK		UN	OK	OK	OK	G / 210 (99)	E / B.P		E / 230 (110)			
calcium chlorate	100	OK	UK	UK		UN	OK	OK	OK	G / 210 (99)	G / 140 (60)	G / B.P	G / 210 (99)			
calcium chloride	50	OK	UK	NG		OK	OK	OK	OK	S / 64 (18)						
	60	OK	UK	NG		OK	OK	OK	OK		E / 300 (149)	G / 309 (154)				
calcium hydrogen sulfite	100	OK	UK	UK		UN	OK	OK	OK							
calcium hydroxide	20	OK	UK	NG		OK	OK	OK	OK	G / 70 (21)		E / 70 (21)				
	50	OK	UK	NG		OK	OK	OK	OK							
	100	OK	UK	NG		OK	OK	OK	OK	G / 75 (24)	E / B.P	E / 75 (24)	E			
calcium hypochlorite	6	UK	UK	UK		UN	OK	OK	OK		E / 212 (100)	E / 212 (100)				
	8	UK	UK	UK		UN	OK	OK	OK		E / 70 (21)					
	20	UK	UK	UK		UN	OK	OK	OK			E / 75 (24)				
	100	UK	UK	UK		UN	OK	OK	OK				E			
calcium nitrate	100	OK	UK	NG		UN	OK	OK	OK	G / 350 (177)	G / 210 (99)		G / 80 (27)			
calcium nitrite monohydrate	100	OK	UK	UK		UN	OK	OK	OK							
calcium phoshate	100	OK	UK	UK		UN	OK	OK	OK							
calcium sulfate	100	OK	UK	NG		UN	OK	OK	OK	G / 210 (99)	E / 210 (99)	G / B.P	G / 210 (99)			
calcium sulfite	50	OK	UK	UK		UN	OK	OK	OK	E / 122 (50)		E / 115 (46)				
calomel	0.1	OK	UK	UK		UN	OK	OK	OK	G / 68 (20)						
camphor	100	UK	UK	UK		UN	OK	OK	OK	E / 210 (99)			E / 90 (32)			
carbolic acid	10	OK	UK	UK		UN	OK	OK	OK			G / B.P				
carbon dichloride	65	OK	UK	UK		UN	OK	OK	OK			E / 250 (121)				
carbon disulfide	100	OK	UK	NG		NG	OK	OK	OK	G / 400 (204)	E / 210 (99)		E / 110 (43)			
carbon tetrachloride	85	OK	UK	UK		NG	UK	OK	OK			G / 86 (30)				
	99	OK	UK	UK		NG	UK	OK	OK		E / 170 (77)					
	100	OK	UK	UK		NG	UK	OK	OK	G / 68 (20)		E / 75 (24)				
carbonic acid	100	OK	UK	UK		UN	OK	OK	OK	G / 350 (177)	E / 210 (99)	E / 75 (24)	G / 300 (149)			
caustic	100	OK	UK	UK		UN	OK	OK	OK							
cellulose acetate	100	NG	NG	UK		UN	OK	OK	OK	G / 400 (204)	G / 80 (27)		G / 80 (27)			
chloric acid	3	UK	UK	UK		UN	OK	OK	OK			E / 75 (24)				
	10	UK	UK	UK		UN	OK	OK	OK	U						
	20	UK	UK	UK		UN	OK	OK	OK	U			G / 300 (149)			
chlorinated lime	6	OK	UK	UK		UN	OK	OK	OK		E / 212 (100)					
	8	OK	UK	UK		UN	OK	OK	OK		E / 70 (21)					
chlorinated water	-	OK	UK	UK		UN	OK	OK	OK		E / 207 (97)	E / 75 (24)		E / 68 (20)		
chlorine	-	OK	UK	NG		UN	OK	OK	OK			E / 90 (32)	U / 572 (300)	E / 212 (100)		

Chemical information and characteristic		Liners								Metals (Electrode and Grounding ring)						
		Ceramic		Rubber			Teflon									
NAME	concentration	for ALKALINE resistance (fluoric rubber)	for ACIDITY resistance	Ethylene-propylene rubber (EPDM)	Chloroprene (CR)	Polyurethane (PU)	Teflon PFA	Teflon PTFE	Teflon FEP	316 stainless steel	Titanium	Hastelloy-C	Tantalum	Platinum-Iridium alloy	Chemical formula	NOTE
Liquid name	(%)	Valuattion								Valuation / Temp. degree F (degree C)						
chlorine dioxide	5	OK	UK	UK		NG	UK	OK	OK		E / 210 (99)	G / 210 (99)				
	8	OK	UK	UK		NG	UK	OK	OK			S / 151 (66)				
chlorine(wet)	-	OK	UK	UK		UN	OK	OK	OK	U / 68 (20)		G / 75 (24)				
chloroacetic acid	30	NG	NG	NG		UN	OK	OK	OK		G / 180 (82)					
	50	NG	NG	NG		UN	OK	OK	OK			E / B.P				
	70	NG	NG	NG		UN	OK	OK	OK							
	100	NG	NG	NG		UN	OK	OK	OK	U / 68 (20)	G / B.P	E / 70 (21)				
chloroform	100	UK	UK	NG		NG	OK	OK	OK	G / 142 (61)	G / 142 (61)	G / 142 (61)				
chlorosulfuric acid	100	OK	UK	UK		UN	OK	OK	OK	G / 185 (85)		E / 185 (85)				
chromic acid	2	OK	UK	NG		UN	OK	OK	OK			G / B.P				
	10	OK	UK	NG		UN	OK	OK	OK	G / 84 (29)		U / B.P				
	50	OK	UK	NG		UN	OK	OK	OK		E / 180 (82)					
	100	OK	UK	NG		UN	OK	OK	OK				E			
chromium oxide	2	OK	UK	UK		UN	OK	OK	OK			G / B.P				
	10	OK	UK	UK		UN	OK	OK	OK	G / 84 (29)		U / B.P				
	100	OK	UK	UK		UN	OK	OK	OK				E			
chromium peroxide	100	OK	UK	UK		UN	OK	OK	OK							
chromium potassium sulfate	100	OK	UK	UK		UN	OK	OK	OK							
chromium sulfate	100	OK	UK	UK		UN	OK	OK	OK							
citric acid	25	NG	NG	NG		UN	OK	OK	OK		E / 212 (100)					
	50	NG	NG	NG		UN	OK	OK	OK		E / 140 (60)					
	60	NG	NG	NG		UN	OK	OK	OK		U / 300 (149)					
	100	NG	NG	NG		UN	OK	OK	OK			E / B.P				
copper acetate	100	NG	NG	UK		UN	OK	OK	OK	G / 210 (99)			E / 300 (149)			
copper cyanide	100	OK	UK	UK		UN	OK	OK	OK	G / 210 (99)	E / 90 (32)		G / 300 (149)			
copper oxide	100	OK	UK	UK		UN	OK	OK	OK							
copper sulfate	50	OK	UK	NG		OK	OK	OK	OK		E / B.P					
	100	OK	UK	NG		OK	OK	OK	OK			E / B.P				
corrosive sublimate	10	OK	UK	UK		UN	OK	OK	OK			G / 176 (80)				
creosote	90	OK	UK	UK		UN	OK	OK	OK			E / 329 (165)				
	100	OK	UK	UK		UN	OK	OK	OK	G / 68 (20)	E / 90 (32)		E / 90 (32)			
cresol	90	OK	UK	NG		UN	OK	OK	OK	E / 397 (203)	G / 210 (99)					
cupper nitrate	5	OK	UK	UK		UN	OK	OK	OK							
	50	OK	UK	UK		UN	OK	OK	OK	G / 212 (100)						
	100	OK	UK	UK		UN	OK	OK	OK		E / 77 (25)	G / 75 (24)				
cupric chloride	5	OK	UK	NG		OK	OK	OK	OK			E / 104 (40)				
	10	OK	UK	NG		OK	OK	OK	OK					E / 68 (20)		
	40	OK	UK	NG		OK	OK	OK	OK		E / B.P					
	50	OK	UK	NG		OK	OK	OK	OK	U	G / 210 (99)	G / 75 (24)	E / 90 (32)			
cupric cyanide	10	OK	UK	UK		UN	OK	OK	OK			G / B.P				
	100	OK	UK	UK		UN	OK	OK	OK		E / 77 (25)					
cuprous chloride	50	OK	UK	NG		UN	OK	OK	OK		E / 194 (90)					
	100	OK	UK	NG		UN	OK	OK	OK	U						
cyanogen	100	UK	UK	UK		UN	OK	OK	OK							

Chemical information and characteristic		Liners								Metals (Electrode and Grounding ring)						
		Ceramic		Rubber			Teflon									
NAME	**concentration**	for ALKALINE resistance (fluoric rubber)	for ACIDITY resistance	Ethylene-propylene rubber (EPDM)	Chloroprene (CR)	Polyurethane (PU)	Teflon PFA	Teflon PTFE	Teflon FEP	316 stainless steel	Titanium	Hastelloy-C	Tantalum	Platinum-Iridium alloy	Chemical formula	NOTE
Liquid name	(%)	Valuattion								Valuation / Temp. degree F (degree C)						
cyclohexane	100	OK	UK	NG		UN	OK	OK	OK	G / 400 (204)	E / 300 (149)		G / 80 (27)			
cyclohexanone	100	NG	NG	NG		UN	OK	OK	OK	G / 180 (82)	G / 80 (27)		G / 80 (27)			
diacetone alcohol	100	NG	NG	NG		UN	OK	OK	OK	G / 400 (204)						
diammonium hydrogenphosphate	100	NG	NG	NG		UN	OK	OK	OK							
dibenzyl ether	100	NG	NG	NG		UN	OK	OK	OK							
dibutylether	100	NG	NG	UK		UN	OK	OK	OK							
dichlorideethane	100	OK	UK	UK		UN	OK	OK	OK		E / 379 (193)					
dichloroacetic acid	100	NG	NG	UK		UN	OK	OK	OK				E / 260 (127)			
dichlorobenzene	100	OK	UK	UK		UN	OK	OK	OK	G / 110 (43)						
dichloroethane	100	OK	UK	UK		UN	OK	OK	OK	G / 400 (204)	G / 210 (99)	G / 126 (52)	E / 210 (99)			
dichloroethylene	100	OK	UK	UK		UN	OK	OK	OK	G / 210 (99)	G / 200 (93)		G / 210 (99)			
dichloromethane	100	UK	UK	NG		UN	OK	OK	OK							
dieoctyl	100	UK	UK	UK		UN	OK	OK	OK							
diethyl ether	100	NG	NG	NG		UN	OK	OK	OK	G / 210 (99)	G / 80 (27)		G / 80 (27)			
diethyl sulfate	100	OK	UK	UK		UN	OK	OK	OK	U / 194 (90)		E / 194 (90)				
diethylamine	100	NG	NG	UK		UN	OK	OK	OK							
diethylene glycol	100	OK	UK	NG		UN	OK	OK	OK	E / 170 (77)						
diisopropylketone	100	NG	NG	NG		UN	OK	OK	OK							
dimethylaniline	100	NG	NG	UK		UN	OK	OK	OK							
dimethylaniline hydrochlride	26	NG	NG	UK		UN	OK	OK	OK	U / 212 (100)		G / 212 (100)				
dimethyl formamide	100	OK	UK	NG		UN	OK	OK	OK	G / 400 (204)						
dioctyl phthalic acid	100	OK	UK	NG		UN	OK	OK	OK							
dioxane	100	NG	NG	NG		UN	OK	OK	OK	G / 210 (99)	G / 200 (93)		G / 210 (99)			
dioxolane	100	NG	NG	NG		UN	OK	OK	OK							
dipenten (limonene)	100	OK	UK	NG		UN	OK	OK	OK							
diphenyl	100	UK	UK	NG		UN	OK	OK	OK	G / 210 (99)	G / 210 (99)		G / 210 (99)			
diphenyloxide	100	NG	NG	NG		UN	OK	OK	OK	G / 80 (27)	E / 80 (27)		E / 80 (27)			
disodium hydrogenphosphate	100	OK	UK	NG		UN	OK	OK	OK							
ethane tetrachloride	100	OK	UK	UK		UN	OK	OK	OK		G / B.P					
ethyl acetate	70	NG	NG	NG		UN	OK	OK	OK	E / 212 (100)						
	100	NG	NG	NG		UN	OK	OK	OK	G / 400 (204)	E / 210 (99)		G / 210 (99)			
ethyl acetoacetate	100	NG	NG	NG		UN	OK	OK	OK	G / 170 (77)			G / 80 (27)			
ethyl acrylic acid	100	NG	NG	UK		UN	OK	OK	OK							
ethyl alcohol	50	OK	UK	NG		NG	OK	OK	OK			E / 171 (77)				
	95	OK	UK	NG		NG	OK	OK	OK		E / B.P					
	100	OK	UK	NG		NG	OK	OK	OK		E / 210 (99)		E / 210 (99)			
ethyl chloride	100	OK	UK	NG		UN	OK	OK	OK	E / B.P	E / 210 (99)	G / 75 (24)	E / 210 (99)	E		
ethyl ether	100	NG	NG	NG		UN	OK	OK	OK	G / 200 (93)	E / 200 (93)		E / 200 (93)			
ethyl oxalate	100	OK	UK	UK		UN	OK	OK	OK							
ethyl sebacic scid	100	UK	UK	UK		UN	OK	OK	OK							
ethyl silicic acid	100	OK	UK	NG		UN	OK	OK	OK							
ethylamine	100	UK	UK	UK		UN	OK	OK	OK							
ethylbenzene	100	OK	UK	NG		UN	OK	OK	OK			E / 241 (116)				
ethylcellulose	100	UK	UK	NG		UN	OK	OK	OK							

Chemical information and characteristic		Liners								Metals (Electrode and Grounding ring)						
		Ceramic		Rubber			Teflon									
NAME	**concentration**	for ALKALINE resistance (fluoric rubber)	for ACIDITY resistance	Ethylene-propylene rubber (EPDM)	Chloroprene (CR)	Polyurethane (PU)	Teflon PFA	Teflon PTFE	Teflon FEP	316 stainless steel	Titanium	Hastelloy-C	Tantalum	Platinum-Iridium alloy	Chemical formula	NOTE
Liquid name	(%)	Valuattion								Valuation / Temp. degree F (degree C)						
ethylene bromide	100	OK	UK	UK		UN	OK	OK	OK	E / 210 (99)	G / 210 (99)		G / 80 (27)			
ethylene chloride	100	OK	UK	NG		UN	OK	OK	OK	G / 210 (99)	E / 210 (99)	G / 126 (52)	G / 210 (99)			
ethylene diamine	100	NG	NG	NG		UN	OK	OK	OK	G / 400 (204)	E / 80 (27)		G / 80 (27)			
ethylene diamine hydrochloride	9	NG	NG	UK		UN	OK	OK	OK			G / 248 (120)				
ethylene dichloride	**100**	**OK**	**UK**	**UK**		**UN**	**OK**	**OK**	**OK**	G / 400 (204)	**G / 210 (99)**		E / 210 (99)			
ethylene glycol	20	OK	UK	NG		UN	OK	OK	OK			E / 320 (160)				
	100	OK	UK	NG		UN	OK	OK	OK	G / 340 (171)	E / 210 (99)		E / 90 (32)			
ethylene tetrachloride	100	OK	UK	UK		UN	OK	OK	OK		G / B.P					
ethylmercaptan	100	UK	UK	UK		UN	OK	OK	OK							
ethylpentachlorobenzene	100	OK	UK	UK		UN	OK	OK	OK							
fatty acid	100	OK	UK	UK		UN	OK	OK	OK			E / 275 (135)	OK			
ferric chloride	10	OK	UK	NG		UN	OK	OK	OK				E / 68 (20)	E / 68 (20)		
	15	OK	UK	NG		UN	OK	OK	OK			E / 75 (24)				
	50	OK	UK	NG		UN	OK	OK	OK		E / 302 (150)					
	100	OK	UK	NG		UN	OK	OK	OK	U / 68 (20)						
ferric sulfate(iron III sulfate)	10	OK	UK	UK		UN	OK	OK	OK		E / 77 (25)					
	30	OK	UK	UK		UN	OK	OK	OK			E / 151 (66)				
	100	OK	UK	UK		UN	OK	OK	OK				E			
ferrous chloride	10	OK	UK	NG		UN	OK	OK	OK			E / 86 (30)				
ferrous sulfate(iron II sulfate)	5	OK	UK	UK		UN	OK	OK	OK			E / 64 (18)				
	10	OK	UK	UK		UN	OK	OK	OK	G / 68 (20)						
	100	OK	UK	UK		UN	OK	OK	OK		E / 77 (25)		E			
fluorine	100	UK	UK	UN		UN	OK	NG	NG			E / 356 (180)				
fluorosilic acid, (hexafluorosilicic acid)	10	UK	UK	UK		UN	OK	OK	NG	U / 75 (24)	U / 77 (25)	G / 75 (24)				
formalin	100	NG	NG	NG		NG	OK	OK	OK							
formic acid	84	NG	NG	NG		NG	OK	OK	OK			E / 230 (110)				
	90	NG	NG	NG		NG	OK	OK	OK							
	100	NG	NG	NG		NG	OK	OK	OK	E / 68 (20)			E			
fuming sulfuric acid	100	NG	NG	NG		UN	OK	OK	OK							
furan	100	NG	NG	UN		UN	OK	OK	OK							
furfural	100	NG	NG	NG		UN	OK	OK	OK	G / 400 (204)	E / 200 (93)		E / 300 (149)			
furfuryl alcohol	100	UK	UK	NG		UN	OK	OK	OK							
gallic acid	10	OK	UK	NG		UN	OK	OK	OK			G / B.P				
	100	OK	UK	NG		UN	OK	OK	OK	G / 212 (100)						
glacial acetic acid	99.7	NG	NG	UK		UN	OK	OK	OK		G / B.P					
	100	NG	NG	UK		UN	OK	OK	OK			E / 675 (357)				
glycerol, glycerin	100	OK	UK	NG		OK	OK	OK	OK	G / 68 (20)		E / 75 (24)				
heptane	100	OK	UK	NG		UN	OK	OK	OK	G / 350 (177)	G / 200 (93)		G / 210 (99)			
hexaaldehyde	100	UK	UK	NG		UN	OK	OK	OK							
hexafluorosilisic acid (fluorosilicic aci	10	UK	UK	UK		UN	OK	OK	OK	U / 75 (24)	U / 77 (25)	G / 75 (24)				
hexane	100	OK	UK	NG		UN	OK	OK	OK	E / 250 (121)	E / 150 (66)		G / 90 (32)			
hexyl alcohol	100	OK	UK	NG		UN	OK	OK	OK							
hydrobromic acid	40	OK	UK	UK		UN	OK	OK	OK		E / 77 (25)					
	1	UK	OK	NG		NG	OK	OK	OK			G / B.P				

Chemical information and characteristic		Liners								Metals (Electrode and Grounding ring)						
		Ceramic		Rubber			Teflon									
NAME	**concentration**	for ALKALINE resistance (fluoric rubber)	for ACIDITY resistance	Ethylene-propylene rubber (EPDM)	Chloroprene (CR)	Polyurethane (PU)	Teflon PFA	Teflon PTFE	Teflon FEP	316 stainless steel	Titanium	Hastelloy-C	Tantalum	Platinum-Iridium alloy	Chemical formula	NOTE
Liquid name	(%)	Valuattion								Valuation / Temp. degree F (degree C)						
hydrochloric acid	3	UK	OK	NG		NG	OK	OK	OK		E / 140 (60)					
	5	UK	OK	NG		NG	OK	OK	OK	G / 68 (20)	E / 95 (35)	B / 151 (66)				
	10	UK	OK	NG		NG	OK	OK	OK		S / 104 (40)					
	100	UK	OK	NG		NG	OK	OK	OK				E	E		
hydrocyanic acid	40	OK	UK	NG		NG	OK	OK	OK		E / 77 (25)					
	100	OK	UK	NG		NG	OK	OK	OK							
hydrofluosilicic acid	9	UK	UK	UK		UN	OK	OK	OK			G / 120 (49)				
	10	UK	UK	UK		UN	OK	OK	OK	U / 75 (24)	U / 77 (25)					
hydrogen chloride	100	UK	OK	UK		NG	OK	OK	OK			E / 289 (143)	E			
hydrogen fluoride	100	NG	NG	UK		UN	UK	OK	OK		U / 68 (20)	G / 356 (180)				
hydrogen iodide	100	OK	UK	UK		UN	OK	OK	OK				E			
hydrogen peroxide	3	OK	UK	NG		NG	OK	OK	OK		G / 77 (25)					
	90	OK	UK	NG		NG	OK	OK	OK	E / 122 (50)						
	100	OK	UK	NG		NG	OK	OK	OK			E / 75 (24)	E	E		
hydrogen sulfide (damp)	100	NG	NG	UK		UN	OK	OK	OK	G / 158 (70)		E / 171 (77)				
hydrogen sulfide (dry)	100	NG	NG	UK		UN	OK	OK	OK							
hydrogen tetrafluoroborate	5	UK	UK	UK		UN	OK	OK	OK		U / 77 (25)					
	100	UK	UK	UK		UN	OK	OK	OK			E / 208 (98)				
hydroiodic acid	31	OK	UK	UK		UN	OK	OK	OK			U / 151 (66)				
	57	OK	UK	UK		UN	OK	OK	OK		G / 77 (25)					
hypochlorous acid	100	UK	UK	NG		UN	OK	OK	OK							
iodic acid	100	OK	UK	UK		UN	OK	OK	OK							
iodine	0.75	OK	UK	NG		UN	OK	OK	OK					G / 212 (100)		
	100	OK	UK	NG		UN	OK	OK	OK	U		G / B.P	E / 68 (20)			
iodine pentoxide	100	UK	UK	UK		UN	OK	OK	OK				U / 356 (180)			
iron hydroxide	100	OK	UK	UK		UN	OK	OK	OK							
iron nitrate	10	OK	UK	NG		UN	OK	OK	OK	G / 68 (20)		E / 75 (24)	E			
isoamyl acetate	100	NG	NG	UK		UN	OK	OK	OK							
isobutyl alcohol	100	OK	UK	NG		UN	OK	OK	OK	G / 150 (66)						
isodecane	100	UK	UK	UK		UN	OK	OK	OK							
isooctane	100	OK	UK	NG		UN	OK	OK	OK	G / 150 (66)						
isopropyl acetate	100	NG	NG	NG		UN	OK	OK	OK	G / 150 (66)						
isopropyl alcohol	11	OK	UK	NG		UN	OK	OK	OK			E / 72 (22)				
	100	OK	UK	NG		UN	OK	OK	OK	G / 400 (204)	G / 220 (104)		G / 220 (104)			
isopropyl ether	100	NG	NG	NG		UN	OK	OK	OK	G / 200 (93)						
lactic acid	1.5	UN	UN	UN		UN	OK	OK	OK	G / 68 (20)						
	10	UN	UN	UN		UN	OK	OK	OK		G / 212 (100)	G / 252 (122)				
	60	UN	UN	UN		UN	OK	OK	OK			E / 129 (54)				
	100	UN	UN	UN		UN	OK	OK	OK				E			
lead acetate	100	NG	NG	UN		OK	OK	OK	OK	G / 210 (99)	E / 210 (99)		G / 210 (99)			
lead acetate(II)	100	NG	NG	UN		UN	OK	OK	OK							
lead acetate(IV)	100	NG	NG	UN		UN	OK	OK	OK							
lead nitrate	100	OK	UN	NG		UN	OK	OK	OK							
lead oxide	100	OK	UN	UN		UN	OK	OK	OK							

Chemical information and characteristic		Liners								Metals (Electrode and Grounding ring)						
		Ceramic		Rubber			Teflon									
NAME	**concentration**	for ALKALINE resistance (fluoric rubber)	for ACIDITY resistance	Ethylene-propylene rubber (EPDM)	Chloroprene (CR)	Polyurethane (PU)	Teflon PFA	Teflon PTFE	Teflon FEP	316 stainless steel	Titanium	Hastelloy-C	Tantalum	Platinum-Iridium alloy	Chemical formula	NOTE
Liquid name	(%)	Valuattion								Valuation / Temp. degree F (degree C)						
lime water	100	OK	UN	NG		UN	OK	OK	OK							
magnesium carbonate	10	OK	UN	UN		UN	OK	OK	OK			G / B.P				
	100	OK	UN	UN		UN	OK	OK	OK	G / 68 (20)						
magnesium chloride	10	OK	UN	NG		UN	OK	OK	OK	G / 68 (20)						
	40	OK	UN	NG		UN	OK	OK	OK		E / B.P					
	100	OK	UN	NG		UN	OK	OK	OK			E / 334 (168)	E			
magnesium hexafluorosilicate	100	UN	UN	UN		UN	OK	OK	OK							
magnesium hydroxide	100	OK	UN	NG		UN	OK	OK	OK	E / 230 (110)	E / 77 (25)		E / 90 (32)			
magnesium peroxide	100	OK	UN	UN		UN	OK	OK	OK							
magnesium sulfate	10	OK	UN	NG		UN	OK	OK	OK	G / 68 (20)						
	25	OK	UN	NG		UN	OK	OK	OK			G / B.P				
	100	OK	UN	NG		UN	OK	OK	OK		G / 210 (99)		E			
maleic acid	18	OK	UN	NG		UN	OK	OK	OK			E / 39 (4)				
	50	OK	UN	NG		UN	OK	OK	OK	G / 212 (100)						
	100	OK	UN	NG		UN	OK	OK	OK		E / 210 (99)		G / 210 (99)			
maleic anhydride	100	UN	UN	UN		UN	OK	OK	OK							
malic acid	100	OK	UN	UN		UN	OK	OK	OK	E / 250 (121)	E / 210 (99)		G / 210 (99)			
manganese sulfate	100	OK	UN	UN		UN	OK	OK	OK							
mercuric chloride	10	OK	UN	UN		UN	OK	OK	OK		E / 212 (100)	G / 176 (80)				
	100	OK	UN	UN		UN	OK	OK	OK				E			
mercury	100	OK	UN	UN		UN	OK	OK	OK			E / 356 (180)				
mercury chloride	0.1	OK	UN	UN		UN	OK	OK	OK	G / 68 (20)						
	100	OK	UN	UN		UN	OK	OK	OK				E			
mercury nitrate	100	OK	UN	UN		UN	OK	OK	OK							
mesityl oxide	100	NG	NG	UN		UN	OK	OK	OK							
methacrylic acid	100	NG	NG	UN		UN	OK	OK	OK							
methyl acetate	60	NG	NG	NG		UN	OK	OK	OK			E / 136 (58)				
methyl alcohol	100	OK	UN	NG		UN	OK	OK	OK	G / 350 (177)	G / 210 (99)		G / 300 (149)			
methyl cellulose	100	UN	UN	UN		UN	OK	OK	OK							
methyl chloride	100	OK	UN	NG		UN	OK	OK	OK	E / 113 (45)		E / 113 (45)	E	E		
methyl ether	100	NG	NG	NG		UN	OK	OK	OK							
methyl ethylketone	1	NG	NG	NG		UN	OK	OK	OK			E / 210 (99)				
methyl formic acid	100	NG	NG	UN		UN	OK	OK	OK							
methyl isobutyl ketone	100	NG	NG	NG		UN	OK	OK	OK	G / 350 (177)	G / 200 (93)		G / 210 (99)			
methyl methacrylate	100	NG	NG	NG		UN	OK	OK	OK							
monochloroacetic acid	100	NG	NG	NG		UN	OK	OK	OK							
naphthalene	100	OK	UN	NG		UN	OK	OK	OK	G / 400 (204)		G / 180 (82)				
naphthenic acid	100	OK	UN	NG		UN	OK	OK	OK	E / 356 (180)		E / 356 (180)				
nickel chloride	80	OK	UN	NG		OK	OK	OK	OK			E / 199 (93)	E			
nickel sulfate	10	OK	UN	NG		UN	OK	OK	OK		G / 200 (93)		E / 200 (93)			
	100	OK	UN	NG		UN	OK	OK	OK	G / 210 (99)		G / B.P				
nitric acid	10	OK	UN	NG		UN	OK	OK	OK			G / 120 (49)				
	70	OK	UN	NG		UN	OK	OK	OK	E / 95 (35)	E / 77 (25)			E / 68 (20)		
	90	OK	UN	NG		UN	OK	OK	OK	E / 68 (20)						

Chemical information and characteristic		Liners								Metals (Electrode and Grounding ring)						
		Ceramic		Rubber			Teflon									
NAME	**concentration**	for ALKALINE resistance (fluoric rubber)	for ACIDITY resistance	Ethylene-propylene rubber (EPDM)	Chloroprene (CR)	Polyurethane (PU)	Teflon PFA	Teflon PTFE	Teflon FEP	316 stainless steel	Titanium	Hastelloy-C	Tantalum	Platinum-Iridium alloy	Chemical formula	NOTE
Liquid name	(%)	Valuattion								Valuation / Temp. degree F (degree C)						
	100	OK	UN	NG		UN	OK	OK	OK				E / 300 (572)			
nitric acid, fuming	40	OK	UN	UN		UN	OK	OK	OK			E / 140 (60)				
	100	OK	UN	UN		UN	OK	OK	OK	E / 130 (54)	E / 80 (27)		G / 300 (149)			
nitro ether	100	NG	NG	UN		UN	OK	OK	OK							
nitroaniline	100	NG	NG	UN		UN	OK	OK	OK							
nitrobenzene	100	NG	NG	NG		UN	OK	OK	OK	G / 350 (177)	E / 210 (99)		G / 210 (99)			
nitromethane	100	NG	NG	NG		UN	OK	OK	OK	G / 80 (27)			G / 90 (32)			
nitropropane	100	NG	NG	NG		UN	OK	OK	OK	E / 68 (20)						
nitrous acid	100	OK	UN	UN		UN	OK	OK	OK				E			
nitrous oxide	10	UN	UN	UN		UN	OK	OK	OK	E / 356 (180)		E / 356 (180)				
oleum	40	UN	OK	UN		UN	OK	OK	OK			E / 140 (60)				
	100	UN	OK	UN		UN	OK	OK	OK				U			
oxalic acid	10	OK	UN	UN		UN	OK	OK	OK	G / 68 (20)		G / 374 (190)				
	45	OK	UN	UN		UN	OK	OK	OK			E / 140 (60)				
perchloric acid	72	NG	NG	NG		UN	OK	OK	OK	U / 75 (24)		G / 75 (24)				
	100	NG	NG	NG		UN	OK	OK	OK				E			
phenol	90	OK	UN	UN		UN	OK	OK	OK	G / (106) 41						
	100	OK	UN	UN		UN	OK	OK	OK		G / 69.8 (21)	E / 126 (52)	E			
phenol sulfonic acid	100	UN	UN	UN		UN	OK	OK	OK	E / 68 (20)						
phenylbenzene	100	OK	UN	NG		UN	OK	OK	OK							
phenylethyl eter	100	NG	NG	NG		UN	OK	OK	OK							
phenylhydrazine	100	OK	UN	NG		UN	OK	OK	OK							
phosphate / phosphoric ester	100	UN	UN	UN		UN	OK	OK	OK							
phosphite	100	OK	UN	UN		UN	OK	OK	OK							
phosphonate	100	OK	UN	UN		UN	OK	OK	OK							
phosphoric acid	5	OK	UN	UN		UN	OK	OK	OK	E / 210 (99)	E / 90 (32)		E / 300 (149)			
	10	OK	UN	UN		UN	OK	OK	OK		G / 80 (27)		E / 380 (193)			
	50	OK	UN	UN		UN	OK	OK	OK		S / 120 (49)		E / 380 (193)			
	75	OK	UN	UN		UN	OK	OK	OK			E / 194 (90)				
	85	OK	UN	UN		UN	OK	OK	OK		S / 100 (38)		E / 350 (177)			
phosphorous	100	UN	UN	UN		UN	OK	OK	OK							
phosphorous acid	100	OK	UN	UN		UN	OK	OK	OK							
phosphorous chloride	13	UN	UN	UN		UN	OK	OK	OK			U / 284 (140)				
phosphorous pentoxide	13	UN	UN	UN		UN	OK	OK	OK			U / 284 (140)				
phthalic acid	100	OK	UN	UN		UN	OK	OK	OK	E / 560 (293)	E / 80 (27)		G / 300 (149)			
phthalic anhydrode	100	NG	NG	UN		UN	OK	OK	OK			E / 302 (150)	E			
picric acid	100	UN	UN	UN		UN	OK	OK	OK	G / 68 (20)	E / 90 (32)		G / 200 (93.3)			
piperidine	100	UN	UN	UN		UN	OK	OK	OK							
poly-aluminium chloride	100	UN	UN	UN		UN	OK	OK	OK							
potassium acetate	100	NG	NG	NG		UN	OK	OK	OK							
potassium bicarbonate	30	OK	UN	UN		UN	OK	OK	OK	E / 210 (99)	E / 210 (99)		G / 210 (99)			
potassium bisulfate	50	UN	UN	UN		UN	OK	OK	OK	E / 145 (63)		E / 145 (63)				
potassium bromide	75	OK	UN	UN		UN	OK	OK	OK			E / 180 (82)				
	100	OK	UN	UN		UN	OK	OK	OK		E / 77 (25)					

Chemical information and characteristic		Liners								Metals (Electrode and Grounding ring)						
		Ceramic		Rubber			Teflon									
NAME	**concentration**	for ALKALINE resistance (fluoric rubber)	for ACIDITY resistance	Ethylene-propylene rubber (EPDM)	Chloroprene (CR)	Polyurethane (PU)	Teflon PFA	Teflon PTFE	Teflon FEP	316 stainless steel	Titanium	Hastelloy-C	Tantalum	Platinum-Iridium alloy	Chemical formula	NOTE
Liquid name	(%)	Valuattion								Valuation / Temp. degree F (degree C)						
potassium carbonate	50	OK	UN	UN		UN	OK	OK	OK		E / 210 (99)		G / 350 (177)			
	100	OK	UN	UN		UN	OK	OK	OK			G / B.P				
potassium chlorate	100	OK	UN	UN		UN	OK	OK	OK	G / 212 (100)						
potassium chloride	20	OK	UN	NG		OK	OK	OK	OK							
	99	OK	UN	NG		OK	OK	OK	OK	E / 325 (163)		E / 325 (163)				
	100	OK	UN	NG		OK	OK	OK	OK		E / 140 (60)		E	E		
potassium chromate	10	OK	UN	UN		UN	OK	OK	OK			E / 75 (24)				
	30	OK	UN	UN		UN	OK	OK	OK	G / 350 (177)	E / 210 (99)		G / 80 (27)			
potassium cyanide	5	OK	UN	NG		UN	OK	OK	OK	G / 68 (20)						
	30	OK	UN	NG		UN	OK	OK	OK	G / 210 (99)	U		E / 90 (32)			
potassium dichromate	10	UN	UN	UN		UN	OK	OK	OK			G / 100 (38)				
	25	UN	UN	UN		UN	OK	OK	OK	G / 68 (20)						
	30	UN	UN	UN		UN	OK	OK	OK		E / 210 (99)		E / 300 (149)			
potassium fluoride	100	NG	NG	UN		UN	OK	OK	OK	G / 210 (99)	U		G / 90 (32)			
potassium hydrogen carbonate	100	OK	UN	UN		UN	OK	OK	OK							
potassium hydrogen sulfite	50	OK	UN	UN		UN	OK	OK	OK	E / 145 (63)		E / 145 (63)				
potassium hydroxide	10	OK	UN	UN		UN	OK	OK	OK		G / B.P					
	20	OK	UN	UN		UN	OK	OK	OK			E / 203 (95)				
	40	OK	UN	UN		UN	OK	OK	OK			E / 77 (25)				
	50	OK	UN	UN		UN	OK	OK	OK		E / 81 (27)	G / B.P				
	100	OK	UN	UN		UN	OK	OK	OK				U / 680 (360)			
potassium hypochlorite	40	UK	UK	UN		UN	OK	OK	OK		E / 210 (99)					
	50	UK	UK	UN		UN	OK	OK	OK			E / 199 (93)				
	100	UK	UK	UN		UN	OK	OK	OK				G / 210 (99)			
potassium iodide	70	OK	UN	UN		UN	OK	OK	OK	G / 210 (99)	E / 210 (99)		E / 300 (149)			
potassium nitrate	5	OK	UN	NG		UN	OK	OK	OK	G / 350 (177)	E / 200 (93)		G / 300 (149)			
	80	OK	UN	NG		UN	OK	OK	OK	G / 350 (177)	E / 210 (99)	G / B.P	G / 300 (149)			
potassium nitrite	100	OK	UN	UN		UN	OK	OK	OK	G / 210 (99)	G / 210 (99)					
potassium oxalate	20	OK	UN	UN		UN	OK	OK	OK							
	22	OK	UN	UN		UN	OK	OK	OK	G / 68 (20)	E / 80 (27)		E / 90 (32)			
potassium perchlorate	25	UN	OK	UN		UN	OK	OK	OK			G / 75 (24)				
	26	UN	OK	UN		UN	OK	OK	OK		E / 77 (25)					
potassium peroxide	100	NG	NG	UN		UN	OK	OK	OK							
potassium persulfate (sulfate)	4	UN	UN	UN		UN	OK	OK	OK			E / 75 (24)				
potassium phosphate	100	OK	UN	UN		UN	OK	OK	OK							
potassium silicate	100	OK	UN	UN		UN	OK	OK	OK							
potassium sulfate	10	OK	UN	NG		UN	OK	OK	OK		E / 77 (25)	G / 75 (24)	E / 80 (176)			
potassium sulfide	100	UN	UN	UN		UN	OK	OK	OK	G / 200 (93)	E / 80 (27)		E / 80 (27)			
Potassium sulfite	50	OK	UN	UN		UN	OK	OK	OK	E / 230 (110)		E / 230 (110)				
potassium thiosulfate	100	OK	UN	UN		UN	OK	OK	OK							
pottasium permanganate	5	OK	UN	UN		UN	OK	OK	OK	G / 68 (20)						
	50	OK	UN	UN		UN	OK	OK	OK			E / 75 (24)				
	75	OK	UN	UN		UN	OK	OK	OK			G / 75 (24)				
	100	OK	UN	UN		UN	OK	OK	OK		E / 77 (25)		U			

Chemical information and characteristic		Liners								Metals (Electrode and Grounding ring)						
		Ceramic		Rubber			Teflon									
NAME	**concentration**	for ALKALINE resistance (fluoric rubber)	for ACIDITY resistance	Ethylene-propylene rubber (EPDM)	Chloroprene (CR)	Polyurethane (PU)	Teflon PFA	Teflon PTFE	Teflon FEP	316 stainless steel	Titanium	Hastelloy-C	Tantalum	Platinum-Iridium alloy	Chemical formula	NOTE
Liquid name	(%)	Valuattion								Valuation / Temp. degree F (degree C)						
propanediol	100	UN	UN	UN		UN	OK	OK	OK							
propyl aclchol	100	OK	UN	NG		UN	OK	OK	OK							
propylene glycol	100	OK	UN	UN		UN	OK	OK	OK	E / 68 (20)						
prussic acid	100	OK	UN	NG		UN	OK	OK	OK	G / 225 (107)		E / 122 (50)				
pyridine	50	NG	NG	UN		UN	OK	OK	OK			E / 100 (38)				
	100	NG	NG	UN		UN	OK	OK	OK		G / 210 (99)		G / 80 (27)			
salicylic acid	100	OK	UN	NG		UN	OK	OK	OK	G / 350 (177)	E / 90 (32)	E / 257 (125)	G / 210 (99)			
sea water	-	OK	UN	UN		OK	OK	OK	OK	G / 68 (20)	E / 75 (24)	E / 196 (91)				
sebacic acid	10	NG	NG	UN		UN	OK	OK	OK			E / B.P				
silicic acid	100	OK	UN	UN		UN	OK	OK	OK							
silicon dioxide	100	OK	UN	UN		UN	OK	OK	OK							
silicon fluoride	100	OK	UN	UN		UN	OK	OK	OK							
silicon tetrachloride	100	OK	UN	UN		UN	OK	OK	OK			E / 140 (60)				
silicon tetrafluoride	100	UN	UN	UN		UN	OK	OK	OK							
silver chloride	10	OK	UN	UN		UN	OK	OK	OK			G / 75 (24)				
silver nitrate	50	OK	UN	NG		UN	OK	OK	OK		E / 77 (25)		E / 212 (100)			
sodium acetate	10	NG	NG	UN		UN	OK	OK	OK			G / 75 (24)				
	100	NG	NG	UN		UN	OK	OK	OK		E / 77 (25)					
sodium acid fluoride	8	OK	UN	UN		UN	OK	OK	OK			U / 140 (60)				
sodium bicarbonate	10	OK	UN	UN		UN	OK	OK	OK			G / B.P				
	20	OK	UN	UN		UN	OK	OK	OK			G / 109 (43)				
sodium bifluoide	8	OK	UN	UN		UN	OK	OK	OK			U / 140 (60)				
	100	OK	UN	UN		UN	OK	OK	OK		E / 77 (25)					
sodium bisolfite	20	OK	UN	UN		UN	OK	UN	UN			E / 180 (82)				
sodium bisulfate	20	OK	UN	UN		UN	OK	OK	OK			E / 180 (82)				
	100	OK	UN	UN		UN	OK	OK	OK			G / B.P	OK			
sodium bisulfite	50	OK	UN	UN		UN	OK	OK	OK	G / B.P						
sodium bromate	100	OK	UN	UN		UN	OK	OK	OK							
sodium bromide	100	OK	UN	UN		UN	OK	OK	OK		G / 80 (176)	G / B.P	G / 300 (149)			
sodium carbonate	25	OK	UN	NG		UN	OK	OK	OK		E / B.P					
	100	OK	UN	NG		UN	OK	OK	OK	G / B.P		E / 219 (104)				
sodium chloride	20	OK	UN	NG		UN	OK	OK	OK		E / B.P					
	26	OK	UN	NG		UN	OK	OK	OK	E / 212 (100)						
	100	OK	UN	NG		UN	OK	OK	OK			E / 219 (104)	E / 212 (100)			
sodium chlorite	10	OK	UN	UN		UN	OK	OK	OK			G / 75 (24)				
sodium chromate	80	OK	UN	UN		UN	OK	OK	OK	E / 210 (99)						
sodium cyanide	100	OK	UN	NG		UN	OK	OK	OK		E / 77 (25)					
sodium dichromate	100	UN	UN	UN		UN	OK	OK	OK		E / 77 (25)					
sodium dihydrogenphosphate	100	OK	UN	NG		UN	OK	OK	OK							
sodium fluoride	10	OK	UN	UN		UN	OK	OK	OK	G / 350 (177)						
	100	OK	UN	UN		UN	OK	OK	OK		E / 80 (27)		U			
sodium formate	100	NG	NG	UN		UN	OK	OK	OK							
sodium hexafluorosilicate	100	NG	NG	UN		UN	OK	OK	OK							
sodium hydrogen carbonate	10	OK	UN	UN		UN	OK	OK	OK			G / B.P				

Chemical information and characteristic		Liners								Metals (Electrode and Grounding ring)						
		Ceramic		Rubber			Teflon									
NAME	**concentration**	for ALKALINE resistance (fluoric rubber)	for ACIDITY resistance	Ethylene-propylene rubber (EPDM)	Chloroprene (CR)	Polyurethane (PU)	Teflon PFA	Teflon PTFE	Teflon FEP	316 stainless steel	Titanium	Hastelloy-C	Tantalum	Platinum-Iridium alloy	Chemical formula	NOTE
Liquid name	(%)	Valuattion								Valuation / Temp. degree F (degree C)						
sodium hydrogen carbonate	20	OK	UN	UN		UN	OK	OK	OK			G / 109 (43)				
sodium hydrogen peroxide	5	NG	NG	UN		UN	OK	OK	OK				E / B.P			
	10	NG	NG	UN		UN	OK	OK	OK		E / B.P					
	20	NG	NG	UN		UN	OK	OK	OK	G / B.P						
	40	NG	NG	UN		UN	OK	OK	OK			E / 77 (25)				
	50	NG	NG	UN		UN	OK	OK	OK		E / 135 (57)					
	100	NG	NG	UN		UN	OK	OK	OK				U / 604 (318)			
sodium hydrogen sulfate	20	OK	UN	UN		UN	OK	OK	OK			E / 180 (82)				
	100	OK	UN	UN		UN	OK	OK	OK			G / B.P				
sodium hydrogen sulfite	100	OK	UN	NG		UN	OK	OK	OK							
sodium hydrosulfide	12	OK	UN	UN		UN	OK	OK	OK			E / 230 (110)				
sodium hydroxide	5	OK	UN	UN		UN	OK	OK	OK				E / B.P			
	10	OK	UN	UN		UN	OK	OK	OK		E / B.P					
	20	OK	UN	UN		UN	OK	OK	OK	G / B.P						
	40	OK	UN	UN		UN	OK	OK	OK			E / 77 (25)				
	50	OK	UN	UN		UN	OK	OK	OK		E / 135 (57)					
	100	OK	UN	UN		UN	OK	OK	OK				U / 604 (318)	E		
sodium hypochlorite	1	UK	UK	UN		UN	OK	OK	OK							
	2	UK	UK	UN		UN	OK	OK	OK	E / 70 (21)						
	6	UK	UK	UN		UN	OK	OK	OK		E / 77 (25)					
	10	UK	UK	UN		UN	OK	OK	OK							
	15	UK	UK	UN		UN	OK	OK	OK			E / 86 (30)				
	100	UK	UK	UN		UN	OK	OK	OK				E			
sodium metaphosphoric acid	100	UN	UN	UN		UN	OK	OK	OK							
sodium metasilicate	100	OK	UN	UN		UN	OK	OK	OK	G / 210 (99)						
sodium nitrate	10	OK	UN	NG		UN	OK	OK	OK			G / 75 (24)				
	100	OK	UN	NG		UN	OK	OK	OK		E / 77 (25)		E			
sodium nitrite	100	OK	UN	NG		UN	OK	OK	OK		E / 77 (25)		G / 210 (99)			
sodium oxalate	100	OK	UN	UN		UN	OK	OK	OK							
sodium perchlorate	10	UN	OK	UN		UN	OK	OK	OK	G / B.P						
	100	UN	OK	UN		UN	OK	OK	OK			E / 176 (80)				
sodium peroxide	10	NG	NG	NG		UN	OK	OK	OK	G / 68 (20)		G / B.P				
sodium persulfate	10	UN	UN	UN		UN	OK	OK	OK		E / 149 (65)					
sodium phosphate	100	OK	UN	UN		UN	OK	OK	OK		E / 77 (25)					
sodium salicylate	100	OK	UN	UN		UN	OK	OK	OK							
sodium silicate	25	OK	UN	UN		UN	OK	OK	OK		E / B.P					
	100	OK	UN	UN		UN	OK	OK	OK	G / 340 (171)	E / 210 (99)		G / 300 (149)			
sodium sulfate	20	OK	UN	NG		UN	OK	OK	OK		E / B.P					
	30	OK	UN	NG		UN	OK	OK	OK							
	100	OK	UN	NG		UN	OK	OK	OK	G / 68 (20)	E / 77 (25)	E / 77 (25)				
sodium sulfide	10	UN	UN	UN		UN	OK	OK	OK		E / B.P					
	20	UN	UN	UN		UN	OK	OK	OK	E / 126 (52)		E / 126 (52)				
	50	UN	UN	UN		UN	OK	OK	OK			U / 338 (170)				
	100	UN	UN	UN		UN	OK	OK	OK		E / 77 (25)					

Chemical information and characteristic		Liners								Metals (Electrode and Grounding ring)						
		Ceramic		Rubber			Teflon									
NAME	**concentration**	for ALKALINE resistance (fluoric rubber)	for ACIDITY resistance	Ethylene-propylene rubber (EPDM)	Chloroprene (CR)	Polyurethane (PU)	Teflon PFA	Teflon PTFE	Teflon FEP	316 stainless steel	Titanium	Hastelloy-C	Tantalum	Platinum-Iridium alloy	Chemical formula	NOTE
Liquid name	(%)	Valuattion								Valuation / Temp. degree F (degree C)						
sodium sulfite	50	OK	UN	UN		UN	OK	OK	OK	G / B.P						
	70	OK	UN	UN		UN	OK	OK	OK	E / 230 (110)		E / 230 (110)				
	100	OK	UN	UN		UN	OK	OK	OK		E / B.P					
sodium tartrate dihydrate	100	OK	UN	UN		UN	OK	OK	OK							
sodium thiosulfate	25	OK	UN	NG		UN	OK	OK	OK	G / B.P	E / B.P					
	100	OK	UN	NG		UN	OK	OK	OK			G / B.P				
stannic chloride(tin chloride)	10	OK	UN	NG		UN	OK	OK	OK			G / 160 (71)				
	24	OK	UN	NG		UN	OK	OK	OK		E / B.P					
	100	OK	UN	NG		UN	OK	OK	OK			G / B.P				
stannous chloride	1	OK	UN	NG		UN	OK	OK	OK			E / B.P				
	20	OK	UN	NG		UN	OK	OK	OK	S / 68 (20)						
	100	OK	UN	NG		UN	OK	OK	OK		E / 77 (25)		E / 68 (20)			
stearic acid	100	OK	UN	UN		UN	OK	OK	OK		E / 176 (80)	E / 199 (93)				
styrene	100	UK	UK	UN		UN	OK	OK	OK	G / 150 (66)						
sugared water	100	OK	UN	NG		UN	OK	OK	OK			E / 300 (149)				
sulfoacetic acid	100	NG	NG	UN		UN	OK	OK	OK							
sulfonation	98	UN	UN	UN		UN	OK	OK	OK			S / 248 (120)				
sulfonic acid	100	OK	UN	UN		UN	OK	OK	OK							
sulfur	100	OK	UN	NG		UN	OK	OK	OK	G / 266 (130)	E / 356 (180)	E / 284 (140)	U	U		
sulfur chloride	100	OK	UN	NG		UN	OK	OK	OK		U		E	E		
sulfur dioxide	100	OK	UN	UN		UN	OK	OK	OK	G / 320 (160)	G / 68 (20)	G / B.P				
sulfur dioxide (sulfurous acid gas)	10	OK	UN	UN		UN	OK	OK	OK			E / 95 (35)				
	100	OK	UN	UN		UN	OK	OK	OK	G / 320 (160)	G / 68 (20)		E	E		
sulfur trioxigen	18	OK	UN	NG		UN	OK	OK	OK	E / 345 (176)		E / 345 (176)				
sulfuric acid	1	NG	NG	NG		UN	OK	OK	OK		E / 212 (100)					
	3	NG	NG	NG		UN	OK	OK	OK		E / 140 (60)					
	5	NG	NG	NG		UN	OK	OK	OK		U / 140 (60)	E / 153 (67)				
	10	NG	NG	NG		UN	OK	OK	OK		U / 95 (35)		E / 212 (100)			
	25	NG	NG	NG		UN	OK	OK	OK			E / 151 (66)				
	70	NG	NG	NG		UN	OK	OK	OK			U / 244 (118)				
	87	NG	NG	NG		UN	OK	OK	OK			E / 158 (70)				
	100	NG	NG	NG		UN	OK	OK	OK							
sulfurous acid	100	OK	UN	NG		UN	OK	OK	OK	G / 320 (160)	E / 75 (24)	G / B.P	E			
superphosphoric acid	100	UN	UN	UN		UN	OK	OK	OK							
tannic acid	10	UN	UN	UN		UN	OK	OK	OK	G / 68 (20)						
	25	UN	UN	UN		UN	OK	OK	OK		G / 212 (100)					
	100	UN	UN	UN		UN	OK	OK	OK				G / 210 (99)			
tar acid	100	UN	UN	UN		UN	OK	OK	OK			E / 356 (180)				
tartar	100	OK	UN	UN		UN	OK	OK	OK	S / 212 (100)						
tartaric acid	10	OK	UN	NG		UN	OK	OK	OK		G / 212 (100)					
	50	OK	UN	NG		UN	OK	OK	OK		E / 140 (60)					
	100	OK	UN	NG		UN	OK	OK	OK	S / 68 (20)		G / B.P				
tetrachloromethane	85	OK	UN	UN		NG	OK	OK	OK			G / 86 (30)				
	99	OK	UN	UN		NG	OK	OK	OK		E / B.P					

Chemical information and characteristic		Liners								Metals (Electrode and Grounding ring)						
		Ceramic		Rubber			Teflon									
NAME	concentration	for ALKALINE resistance (fluoric rubber)	for ACIDITY resistance	Ethylene-propylene rubber (EPDM)	Chloroprene (CR)	Polyurethane (PU)	Teflon PFA	Teflon PTFE	Teflon FEP	316 stainless steel	Titanium	Hastelloy-C	Tantalum	Platinum-Iridium alloy	Chemical formula	NOTE
Liquid name	(%)	Valuattion								Valuation / Temp. degree F (degree C)						
	100	OK	UN	UN		NG	OK	OK	OK	G / 68 (20)		E / 75 (24)				
thiophene	100	UN	UN	UN		UN	OK	OK	OK							
tin tetrachloride	100	OK	UN	UN		UN	OK	OK	OK			G / 219 (104)				
titanium sulfate	100	OK	UN	UN		UN	OK	OK	OK							
toluene	100	UK	UK	NG		NG	OK	OK	OK	E / 350 (177)	E / 210 (99)		E / 300 (149)			
triammonium phosphate	100	NG	NG	NG		UN	OK	OK	OK							
tributoxylethyl phosphate	100	NG	NG	UN		UN	OK	OK	OK							
tributyl phosphate	100	NG	NG	UN		UN	OK	OK	OK	G / 100 (38)						
trichloroethane	100	OK	UN	NG		UN	OK	OK	OK							
trichloroethylene	100	OK	UN	NG		UN	OK	OK	OK	G / B.P		E / B.P				
triethanolamine	100	NG	NG	UN		UN	OK	OK	OK	G / 80 (27)			G / 210 (99)			
trimethylene glycol	100	OK	UN	UN		UN	OK	OK	OK							
trisodium phosphate	10	OK	UN	NG		UN	OK	OK	OK	E / 160 (71)						
	100	OK	UN	NG		UN	OK	OK	OK				G / 80 (27)			
urea	28	UN	UN	UN		NG	OK	OK	OK		G / 356 (180)	G / 354 (179)				
uric acid	100	UN	UN	UN		UN	OK	OK	OK							
vanadium oxide(vanadium pentoxide)	100	OK	UN	UN		UN	OK	OK	OK							
vegetable oil	100	OK	UN	NG		UN	OK	OK	OK	E / 250 (121)			E / 250 (121)			
vinegar	100	NG	NG	NG		UN	OK	OK	OK	G / 180 (82)	E / 90 (32)		E / 100 (38)			
vinyl acetate	75	NG	NG	UN		UN	OK	OK	OK			E / 300 (149)				
water vapor	20	UK	UK	NG		UN	OK	OK	OK							
zinc chloride	20	OK	UN	UN		UN	OK	OK	OK	G / 68 (20)						
	50	OK	UN	UN		UN	OK	OK	OK		E / 302 (150)					
	80	OK	UN	UN		UN	OK	OK	OK			E / B.P				
	100	OK	UN	UN		UN	OK	OK	OK				E			
zinc fluosilicate	30	UN	UN	UN		UN	OK	OK	OK			E / 75 (24)				
zinc oxide	100	OK	UN	UN		UN	OK	OK	OK							
zinc sulfate	25	OK	UN	UN		NG	OK	OK	OK	G / 68 (20)						
	40	OK	UN	UN		NG	OK	OK	OK			G / B.P				
	100	OK	UN	UN		NG	OK	OK	OK				E			
zinic hexafluorosilicate	36	UN	UN	UN		UN	OK	OK	OK			E / 75 (24)				
zirconium chloride	25	UN	UN	UN		UN	OK	OK	OK			E / 185 (85)				