DATA SHEETS

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PLATE MATERIALS - CORROSION TABLES

0	Corrosion rate less than 0,1 mm/year. The material is corrosion proof.
1	Corrosion rate less than 0,1 - 1 mm/year. The material is not corrosion proof, but can be used in certain cases.
2	Corrosion rate over 1 mm/year. Serious corrosion. The material is not usable.
P,p	Risk of pitting and crevice corrosion
S,s	Risk of stress corrosion cracking
BP	Boiling solution

Corrosive medium	Conc.	Temp.	304	316	254 SMO	TI	TI PD
Acetic acid	1	90	0	0	0	0	0
	5	20	0	0	0	0	0
	10	20	0	0	0	0	0
	20	20	0	0	0	0	0
	20	100	2	0	0	0	0
	50	20	0	0	0	0	0
	80	20	0	0	0	0	0
	80	85	1	0	0	0	0
	100	20	0	0	0	0	0
	100	100	1	0	0	0	0
Acetone	100	20	0	0	0	0	0
Ammonium chloride	1	20	p0	p0	p0	0	0
	5	BP	p0s	p0s	p0s	0	0
	10	20-50	p0	p0	p0	0	0
	20	20-50	p0	p0	p0	0	0
	50	115	p2s	p1s	p1s	0	0
Beer		20-70	0	0	0	0	0
Benzene		20-BP	0	0	0	0	0
Butyl alcohol		20-BP	0	0	0	0	0
Calcium chloride	5	20	p0	p0	p0	0	0
	5	50	p0	p0	p0	0	0
	10	100	p0s	p0s	p0s	0	0
	10	20	p0	p0	p0	0	0
	20	100	p0s	p0s	p0s	0	0
	25	100	p0s	p0s	p0s	0	0
	40	100	p0s	p0s	p0s	0	0
Calcium hydroxide	all	20-BP	0	0	0	0	0
Carbon tetrachloride	100	20	0	0	0	0	0
	100	76	0	0	0	0	0
Chromic acid	2	75	0	0	0	0	0
	10	40	0	0	0	0	0
	10	BP	2	2	2	0	0

	20	200	0	0	0	0	0
	20	50	1	1	1	0	0
	40	20	1	1		0	0
	40	40	2	2	2	0	0
	50	20	2	2	2	0	0
Detergents	1	80	0	0	0	0	0
Dextrose		20	0	0	0	0	0
Ether		20-BP	0	0	0	0	0
Ethyl alcohol	all conc.	20-BP	0	0	0	0	0
Fatty acids	100	20	0	0	0	0	0
	100	80-130	0	0	0	0	0
	100	150	0	0	0	0	0
	100	180	1	0	0	0	0
	100	235	1	0	0	0	0
	100	300	2	0	0	0	0
Fluorine	dry gas	20	0	0	0	0	0
	most	20	2	2	1	2	2
Formaldehyde	pure	2-BP	0	0	0	0	0
Freon		<200	0	0	0	0	0
Fruit juices		20	0	0	0	0	0
Wines		BP	0	0	0	0	0
Glucose	all conc.	20	0	0	0	0	0
Ethylene glycol	all conc.	20	0	0	0	0	0
Hydrochloric acid	0,1	20-50	p1	p0	p0	0	0
	0,1	100	p1s	p0s	p0s	0	0
	0,2	20	p1	p0	p0	0	0
	0,5	20	p1	p0	p0	0	0
	0,5	100	2	2	2	1	0
	1	20	p1	p0	p0	0	0
	1	50	2	p0	p0	0	0
	2	20	2	p0	p0	0	0
	2	60	2	2	2	0	0
	3	20	2	p0	p0	0	0
	3	60	2	p1	p1	0	0
	3	100	2	2	2	2	0
	5	20-70	2	2	2	1	0
	10	20-35	2	2	2	1	0
	20	20-35	2	2	2	2	1
Hydrogen peroxide	5	20	0	0	0	0	0
	10	40	0	0	0	1	1
	15	30-40	0	0	0	1	1
	30	40-80	0	0	0	2	2
	50	40	0	0	0	2	2
Lithium chloride	10	BP	p0s	p0s	p0s	0	0
	10	135	p1s	p1s	p0s	0	0
	40	115	p1s	p1s	p0s	0	0
Magnesium chlordie	2,5	20	p0	p0	p0	0	0
	5	BP	p0s	p0s	p0s	0	0
Phosporic acid	1,3	25	1	0	0	2	1
	75	2	1	0	2	2	
	1,5	20	2	0	0	2	1
	75	2	1	0	2	2	
Potassium chromate	all conc	BP	0	0	0	0	0
Potassium hydroxide	10	BP	0	0	0	0	0
	20	20	0	0	0	0	0
	25	BP	0	0	0	1	1
	50	20	0	0	0	0	0
	50	BP	1s	1s	1s	2	2
	70	120	1s	1s	1s	2	2
Saccharin	all conc	100	0	0	0	0	0
Salicylic acid	5	20-85	0	0	0	0	0
	20	100	0	0	0	0	0
Silver mitrate	all conc	20-BP	0	0	0	0	0
Sodium bromide	5-10, 1	20	p0	p0	p0	0	0
	20	80	p0s	p0s	p0s	0	0
Sodium carbonate	all conc	20-BP	0	0	0	0	0
Sodium fluoride	5-10,1	20-100	0	0	0	2	1

Sodium hydroxide	10	20	0	0	0	0	0
	10	90	0	0	0	0	0
	20	20	0	0	0	0	0
	20	90	0	0	0	0	0
	25	20	0	0	0	0	
	25	BP	0	0	0	1	1
	30	20	0	0	0	0	0
	30	100	0	0	0	1	1
	40	80	0	0	0	1	1
	40	100	1	1	0	1	1
	50	60	0	0	0	0	0
	50	90	1	1	0	1	1
	50	BP	1s	1s	1s	1	1
	60	90	1	1	0	0	0
	70	90	1	1	0	0	0
	90	300	2s	1s	1s	2	2
Sodium hypochlorite	5	20	p1	p1	p0	0	0
	5	BP	p1s	p1s	p1s	0	0
Starch	all conc	60	0	0	0	0	0
Sulphuric acid	0,1	100	2	1	0	1	0
	0,5	20	0	0	0	0	0
	0,5	50	1	0	0	0	0
	0,5	100	2	1	1	1	0
	1	20	0	0	0	0	0
	1	50	1	0	0	0	0
	1	70	1	0	0	1	0
	1	85	2	1	0	1	0
	1	100	2	1	1	1	0
	2	20	0	0	0	0	0
	2	50	1	0	0	0	0
	2	60	1	0	0	1	0
	3	20	0	0	0	0	0
	3	35	1	0	0	0	0
	3	50	1	0	0	1	0
	3	85	2	1	0	1	1
	3	100	2	2	1	2	1
	5	20	1	0	0	0	0
	5	35	1	0	0	1	0
	5	60	2	1	0	1	0
	5	75	2	1	0	2	1
	5	85	2	2	1	2	1
	5	BP	2	2	2	2	1
Sulphuric acid	10	20	2	0	0	1	0
	10	50	2	1	0	2	0
	10	60	2	1	0	2	1
	10	80	2	2	1	2	1
	10	BP	2	2	2	2	2
	20	20	2	0	0	2	0
	20	40	2	1	0	2	0
	20	50	2	1	0	2	1
	20	60	2	2	1	2	1
	20	100	2	2	2	2	2
	30	20	2	1	2	1	0
	30	40	2	2	0	2	1
	30	60	2	2	1	2	2
	40	20	2	2	0	2	0
	40	40	2	2	0	2	1
	40	60	2	2	1	2	2
	40	90	2	2	2	2	2
	50	20	2	2	0	2	1
	50	40	2	2	0	2	2
	50	70	2	2	2	2	2
	60	20	2	2	0	2	2
	60	40	2	2	1	2	2
	60	70	2	2	2	2	2
	70	20	2	2	0	2	2
	70	40	2	2	1	2	2

	70	70	2	2	2	2	2
	80	20	2	1	0	2	2
	80	40	2	2	1	2	2
	80	60	2	2	2	2	2
	85	20	1	0	0	2	2
	85	30	1	0	0	2	2
	85	40	1	1	1	2	2
	85	50	2	1	1	2	2
	90	20	0	0	0	2	2
	90	30	0	0	0	2	2
	90	40	2	1	1	2	2
	90	70	2	2	2	2	2
	94	20	0	0	0	2	2
	94	30	0	0	0	2	2
	94	40	1	1	1	2	2
	94	50	1	1	1	2	2
	96	20	0	0	0	2	2
	96	30	0	0	0	2	2
	96	40	0	0	1	2	2
	96	50	1	1	1	2	2
	98	30	0	0	0	2	2
	98	40	0	0	1	2	2
	98	50	2	0	1	2	2
	98	80	2	2	2	2	2
	100	70	0	0			