

TECHNICAL DATA

CORROSION RESISTANCE TABLE

It is important to note that corrosion is a complicated issue. It depends on the combinations of materials and the fluids, the fluid temperatures, the surrounding environment and the galvanic currents in the constructions. The corrosion table must be used with care.



CONVERSION FACTORS

COMPOSED ENTITY	CONVERSION FACTORS		
	G/M ² H	MM / YEAR	MILLS / YEAR
g/m ² /h	1,0	8,64: s.g.	340: s.g.
g/m ² /24h	0,042	0,360: s.g.	14,2: s.g.
g/dm ² /24h	4,17	36,0: s.g.	1420: s.g.
mg/dm ² /24h	0,004	0,036: s.g.	1,42: s.g.
mg/cm ² /24h	0,417	3,60: s.g.	142: s.g.
lbs/ft ² /24h	203	1760: s.g.	69200: s.g.
lbs/ft ² /year	0,564	4,88: s.g.	192: s.g.

CONVERSION CRITERIA

COMBINED UNIT	CONVERSION		
	G/M ² H	MM / YEAR	MILLS / YEAR
mm/year	0,116 x s.g.	1.0	39,4
mm/month	1,39 x s.g.	12	479
mm/48h	20,80 x s.g.	180	7185
tum/year (ipy)	2,95 x s.g.	25,4	100,00
tum/month (imp)	35,3 x s.g.	305	12000
mills/year (mpy)	0,003 x s.g.	0.025	1.0
mills/month (mpm)	0,035 x s.g.	0.305	12

s.g. = Specific gravity
mills (thousandth of an inch) per year penetration

Corrosion criteria based on laboratory tests are commonly expressed in grams per square meter per hour. For all metals this entity corresponds with approximately mm/per year (1 g/m²h = 1,1 mm/year) because the specific gravity (7.7 to 8.1) for all metal is similar. Titanium has a specific gravity of 4.5 the entity is 1g/m²h =1,9 mm year

SPECIFIC GRAVITY STAINLESS STEELS AND OTHER METALS

COMBINED UNIT	W.N	SPECIFIC GRAVITY
13 CR	1.4000	7.7
17 Cr	1.4016	7.7
18 Cr - 2 Mo	1.4521	7.7
25 - 5 - 1,5 Mo	1.4460	7.7
18 - 9	1.4301, 1.4306, 1.4311, 1.4541	7.9
17 - 12 - 2,5 Mo	1.4401, 1.4404, 1.4571, 1.4436,	8.0
	1.4435, 1.4429, 1.4438	
18 - 14 - 3,5 Mo	1.4438	8.0
17 - 15 - 4,5 Mo	-	8.0
20 - 25 4,5 Mo - 1,5 Cu	1.4539	8.1
Carbon steel		7.8
Titanium		4.5

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In the table on the next pages the following symbols are used meaning:
 0 Corrosion rate less than 0.1 mm/year. The material is corrosion proof.
 1 Corrosion rate 0.1 - 1.0 mm/year. The material is not corrosion proof, but useful in certain cases.
 2 Corrosion rate over 1.0 mm/year. Serious corrosion. The material is not usable.
 P Risk (Severe risk) of pitting and crevice corrosion.
 S Risk (Severe risk) of stress corrosion cracking.
 K Boiling solution.

All concentrations are in the percentage weight loss, the solvent is water unless differently indicated. The information applies for annealed materials with a normal structure and a surface that is clean.

MEDIUM	Chemical formula	Concentration	Temp. °C	304 cr 18 ni 9	316	CR 17 NI 12 MO2,5
Acetone	(CH ₃) ₂ CO	1	20-K	0	0	
Acetylchloride	CH ₃ COCl	100% dry	K	1	0	
		wet	K	PIS	POS	
Alum	KAl(SO ₄) ₂	2.5%	90	0	0	
		2.5%	K	1	0	
		5.5%	20-90	0	0	
		5.5%	K	1	1	
		10%	20	0	0	
		10%	50	0	0	
		10%	80	1	0	
		10%	K	1	1	
		15%	50	0	0	
		15%	K	2	2	
		saturated	K	2	2	
Aluminium melted	AL	-	700	2	2	
Aluminium acetate	Al(OOCCH ₃) ₃	saturated	K	0	0	
Aluminiumchloride	ALCL ₃	5%	50	POS	POS	
		5%	100	P2S	P2S	
		10%	100	2	2	
		10%	150	2	2	
		20%	100	2	2	
		20%	150	2	2	
		25%	20	2	2	
		25%	60	2	2	
		27.5%	110	2	2	
Aluminium nitrate	AL(NO ₃) ₃	all conc.	20	0	0	
Aluminium sulphate	AL ₂ (SO ₄) ₃	0.50%	50	0	0	
		1%	20	0	0	
		2.30%	101=K	2	0	
		5%	101=K	2	0	
		10%	20	0	0	
		10%	50	0	0	
		10%	102=K	2	1	
		23%	20	2	0	
		23%	100	2	1	
		27%	20	2	0	
		27%	102=K	2	1	
		sat. by 20°C	105=K	2	2	
Ammonium	NH ₄ OH	all conc.	20-K	0	0	
Ammonium bifluoride	NH ₄ HF ₂	10%	25	2	1	
Ammonium bicarbonate	(NH ₄)HCO ₃	all conc.	20	0	0	
Ammonium chloride	NH ₄ CL	1%	20	PO	PO	
		1%	100	POS	POS	
		5%	K	POS	POS	
		10%	20-50	PO	PO	
		10%	90-100	POS	POS	

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MEDIUM	Chemical formula	Concentration	Temp. °C	304 cr 18 ni 9	316	CR 17 NI 12 MO2,5
Ammonium chloride (continued)	NH4CL	10%	K	P1S	POS	
		10%	135	P1S	POS	
		20%	20-50	P0	P0	
		20%	90	P1S	POS	
		20%	K	P1S	P1S	
		50%	115	P2S	P1S	
Ammonium carbonate	(NH4) 2CO3·H2O	all conc.	20	0	0	
			100	0	0	
Ammonium nitrate	NH4NO3 + (NH4) 2SO4	100	60	0	0	
	In every relation	100	120	1	0	
Ammonium oxalate	(NH4) 2C2O4	1-8%	20	0	0	
		5-20%	100	1	0	
Ammoniumperchlorate	NH4ClO4	10%	20	0	0	
		10%	K	0	0	
		20%	30	0	0	
		10%	K	POS	POS	
		20%	30	P0	P0	
Ammonium sulphate	(NH4) 2SO4	all conc.	20-K	0	0	
Ammonium sulphite	(NH4) 2SO3	saturated	20-K	0	0	
Aniline unrefined	C6H5NH2	100%	20	0	0	
Aniline hydrochloride	C6H5NH2HCl	all conc.	20	P2	P2	
		5%	100	P2S	P2S	
Antimony, melted	Sb	-	650	2	2	
Acetic acid	CH3COOH	1%	90	0	0	
		1%	100K	0	0	
		5%	20	0	0	
		5%	50	0	0	
		5%	75	0	0	
		5%	100=K	0	0	
		10%	20	0	0	
		10%	75	0	0	
		10%	100=K	1	0	
		20%	20	0	0	
		20%	80	0	0	
		20%	90	1	0	
		20%	100=K	2	0	
		50%	20	0	0	
		50%	80	0	0	
		50%	90	1	0	
		50%	100	2	0	
		80%	20	0	0	
		80%	40	0	0	
		80%	85	1	0	
		99.5%	200	2	1	
		100%	20	0	0	
		100%	80	0	0	
		100%	100	1	0	
Bariumchloride	BaCl2·2H2O	6%	100	POS	POS	
		23%	100	POS	POS	
			melted	2	2	
Petrol		-	20-K	0	0	
Beer yeast		-	20-K	0	0	
Borax: in solution melted	Na2B4O7·10H2O	All conc.	20-K	0	0	
		Melted		2 melted	2	

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MEDIUM	Chemical formula	Concentration	Temp. °C	304 cr 18 ni 9	316	CR 17 NI 12 MO2,5
Blood		-	20	0	0	
			37			P0
Boric acid	B(OH)3	all conc	K	0	0	
			K	0	0	
Bromine moist	Br2	100%	20	2	2	
Aqueous solution of bromine		0.03%	20	P0	P0	
		0.30%	20	P1	P0	
Butyric acid	C3H7COOH	100%	20	0	1	
		100%	K	1	0	
Calciumbisulphite	Ca(HSO3) 2	10%	20	0	0	
		10%	K	1	0	
Calciumhypochloride	Ca(ClO)2	1%	20	P1	P0	
		2%	100	P1S	P1S	
		6%	20	P1	P1	
		6%	100	P2S	P1S	
Calcium sulphate	CaSO4	all conc.	100	0	0	
Chloride	CL2	dry gas	70	0	0	
		100%	20-60	P2	P2	
		Moist gas	60-100	P2S	P2S	
Chlorobezene	C6H5Cl	100%	20%	0	0	
		100%	132-K	0	0	
		With moisture		POS	POS	
Chloroacetic Acid (mono)	CH2ClCOOH	30%	80	2	2	
		50%	20	2	2	
		100%	100	2	2	
		100%	100	2	2	
Chloride of lime, dry moist	CaOCl2	0.8%	20	P1	P0	
		1%	K		POS	
		20%	35		P0	
		30%	20	1	1	
Chloroform	CHCl3	all conc.	20	P0	P0	
Sulphur chloride	S2Cl2	-	K	POS	POS	
		dry 100%	62=K	0	0	
		dry 100%	20	0	0	
		dry 100%	136=K	0	0	
		Wet	20	P1	P1	
Chloric acid	HClO3	10%	20	-	-	
		100%	20	P2	P2	
Hydrogen chloride, gas dry	HCl	dry	20-40	0	0	
			100	1	1	
			250	1	1	
			400-500	2	2	
Chromic acid pure, H2SO4 free	CrO3	2%	75	0	0	
		2%	100=K	2	2	
		5%	80	0	0	
		5%	100=K	1	2	
		10%	40	0	0	
		10%	K	2	2	
		20%	20	0	0	
		20%	50	1	1	
		20%	K	2	2	
		40%	20	1	1	
		40%	40	2	2	
		50%	20	2	2	

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MEDIUM	Chemical formula	Concentration	Temp. °C	304 cr 18 ni 9	316	CR 17 NI 12 MO2,5
Citric acid	C3H4(OH)(COOH)3 1	1%	20	0	0	
		1%	K	0	0	
		5%	20-50	0	0	
		5%	85-K	0	0	
		5%	140	1	0	
		10%	20-40	0	0	
		10%	85-K	0	0	
		25%	20	0	0	
		25%	40	0	0	
		25%	85	1	0	
Citric acid (continued)	C3H4(OH)(COOH)3	25%	100	2	0	
		25%		2	0	
		50%	20	0	0	
		50%	40	0	1	
		50%	100	2	0	
		50%	K	2	0	
		70%	K	2	0	
Hydrocyanic acid	HCN	100%	20	0	0	
Dichloroethylene	C2H2Cl2	100%	20-K	0	0	
		wet		POS	POS	
Ethyl chloride	C2H5Cl	wet	20-K	0	0	
Ethyl alcohol	C2H5OH	all conc	20-K	0	0	
Ethyl ether	(C2H5) 2O	-	20-K	0	0	
Ethyl chloride	C2H4Cl2	100%	20-K	0	0	
Hyposulphite	Na2S2O3+K2S2O4	40%, 2,5%	20	P0	0	
Hyposulphite +	Na2S2O3+Na2SO3	19%, 4,7%	20	P0	0	
Sulphuric acid	+H2SO4	-0.50%				
Hydrogen fl uoride	HF	1%	20	1	0	
		10%	20	2	2	
		75%	20	2	2	
		100%	20	1	1	
Formaldehyde	HCHO	all conc.	20-K	0	0	
Galic acid	C6H2(OH)3COOH	conc. 25%				
		Saturated				
		on 100°C	K	0	0	
Glycerine	C3H5(OH)3	all conc.	20	0	0	
Iodine, dry moist	I2	dry	20	0	0	
		moist	20	P2	P2	
		water solution 1%	20	P0	P0	
		water solution 2%				
		+ 1% KI	20	P0	P0	
Iodioform, liquefi ed vaporous	CHI3	crystal	20	P0	P0	
		damp	50	P0	P0	
Potassium dichromate	K2Cr2O7	20%	90	0	0	
		25%	20	0	0	
		25%	K	0	0	
Potassium bitartrate	KH(OOC(OH)CH)2	saturated	K	1	0	
		at 100°C				
Potassium bromide	KBr	all conc.	20	P0	P0	
Potassium chlorate	KClO3	7-10%	50	0	0	
		10%	100	0	0	
		36%	K	1	0	
		with Cl			PS	PS

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MEDIUM	Chemical formula	Concentration	Temp. °C	304 cr 18 ni 9	316	CR 17 NI 12 MO2,5
Potassium chlorate	KClO3	all conc.		P	P	
Potassium cyanide	KCN	all conc.	20	0	0	
			K		0	
Potassium ferricyanide	K3(Fe(CN)6)	all conc.	20	0	0	
			K	0	0	
Potassium hydroxide	KOH	10%	K	0	0	
		20%	20	0	0	
		25%	K	0	0	
		50%	20	0	0	
		50%	K	1S	1S	
		70%	120	1S	1S	
		melted	300-365	2S	2S	
Potassium hypochlorite	KClO	<2%	20	P1	P0	
until 20 g as cl/liter		>20%	20	P2	P1	
Kaliumjodide	KI	all conc.	K	P0	P0	
Potassium carbonate	K2 CO3	all conc.	K	0	0	
			900-1000	2	2	
Potassium nitrate	KNO3	all conc.	20-K	0	0	
			550	0	0	
			780	1	1	
Potassium oxalate	(C OOK)2 x H2O		20	0	0	
			K	0	0	
Potassium permanganate	KMnO4	5-10%	20	0	0	
		10%	K	0	0	
Potassium sulphate	K2SO4	all conc.	K	0	0	
Silicic acid	HF	1%	20	1	0	
		10%	20	2	2	
		75%	30	2	2	
		100%	20	1	1	
Copper acetate	Cu(CH3COO)2	all conc.	K	0	0	
Copper chloride	CuCl2	0.05%	100=K	P0	P0	
Copper cyanide	Cu(CN)2	saturated	K	0	0	
		at 100°C				
Copper nitrate	Cu(NO3) 2	all conc.	20-K	0	0	
Copper sulphate	CuSO4	all conc.	20-K	0	0	
Mercury	Hg	-	20-400	0	0	
Mercuric chloride	HgCl2	0.1%	20	P1	P0	
		0.1%	K	P1S	P0S	
		0.7%	20	P1	P0	
		0.7%	K	P2S	P2S	
Mercuric cyanide	Hg(CN)2	5%	20	0	0	
Mercuric nitrate	Hg(NO3) 2	5%	20	0	0	
Lead, melted	Pb	melted	400	1	0	
			900	2	2	
Lead acetate	(CH3COO)2Pb·3H2O	all	20-90	0	0	
		concentrations	K	0	0	
Lead nitrate	Pb(NO3) 2	all conc.	K	0	0	
Lysol		2%	20	0	0	
		conc.	20-K	0	0	
Manganese chloride	MgCl2	2.5%	20	P0	P0	
		5%	K	P0S	P0S	
Manganese sulphate	MgSO4	5%	20	0	0	
		5%	60	0	0	
		10%	20	0	0	

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MEDIUM	Chemical formula	Concentration	Temp. °C	304 cr 18 ni 9	316	CR 17 NI 12 MO2,5
		10%	60	0	0	
		20%	2	0	0	
		20%	K	0	0	
		26%	K	0	0	
Manganese sulphate	MnSO4	all conc.	20	0	0	
		23%	K	0	0	
Methyl alcohol	CH3OH	100%	65-K	0	0	
Methyl chloride	CH3Cl	dry 100%	20	0	0	
Milk		Fresh	20	0	0	
			K	0	0	
		sour	20	0	0	
Lactic acid + sulphuric acid	(C2H4COH)COOH	10-50%	K	2	2	
	+ H2SO4	25%				
Mustard			20	P0		
Sodium carbonate	NaHCO3	all conc.	20-100	0		P0
Sodium bisulphate	NaHSO4	1%	85	1	0	
		2%	20	0	0	
		2%	85	1	0	
		4%	20	1	0	
		4%	K	2	0	
Sodium bisulphate (continued)	NaHSO4	5%	20	1	0	
		5%	85	2	0	
		10%	20	1	0	
		10%	50	2	0	
		10%	K	2	1	
		15%	85	2	2	
Sodium bisulphate	NaHSO3	10%	20	0	0	
		10%	K	1	0	
Natriumchloraat	NaClO3	10-20%	K	0	0	
		30%	20	0	0	
		30%	K	1	0	
Sodium fluoride	NaF	5-10%	20-100	0	0	
Sodium hydroxide	NaOH	10%	20	0	0	
		10%	90	0	0	
		10%	103=K	0	0	
		20%	20	0	0	
		20%	90	0	0	
		25%	20	0	0	
		25%	112=K	0	0	
		30%	20	0	0	
		30%	100	0	0	
		30%	116=K	1S	0S	
		40%	80	0	0	
		40%	90	0	0	
		40%	100	1	1	
		40%	128=K	1S	1S	
		50%	60	0	0	
		50%	90	1	1	
		50%	100	1	1	
		50%	120	1	1	
		50%	140=K	1S	1S	
		60%	90	1	1	
		60%	120	1	1	
		60%	160=K	2S	2S	

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MEDIUM	Chemical formula	Concentration	Temp. °C	304 cr 18 ni 9	316	CR 17 NI 12 MO2,5
		70%	90	1	1	
		70%	130	1	1	
		70%	180=K	2S	2S	
		90%	300	2S	1S	
		melted	320	2S	2S	
Sodium hypochlorite	NaClO	5%	20	P1	P1	
		5%	K	PIS	PIS	
Sodium carbonate	Na2CO3	all conc.	20-K	0	0	
		melted	900	2	2	
sodium nitrate	NaNO3	all conc.	20-K	0	0	
		melted	360	0	0	
Sodium nitrite	NaNO2	alle conc.	K	0	0	
Sodium perchlotae	NaClO4	10%	K	0	0	
Sodium phosphate	Na3PO4	all conc.	K	0	0	
Sodium sulphate	NaSO4	all conc.	20	0	0	
Sodium sulphade	Na5S	5%	K	0	0	
		10%	20	0	0	
		10-50%	K	0	0	
Sodium sulphite	Na2SO3	50%	20	0	0	
		50%	K	0	0	
Sdodium thiosulphate	Na2S2O3	50%	20	0	0	
		50%	K	0	0	
Nickel chloride	NiCl2	10%	20	P0	P0	
		10%	100	POS	POS	
Nickel nitrate	Ni(NO3) 2	5-10%	K	0	0	
Nickel sulphate	NiSO4	all conc.	K	0	0	
Mineral oil			K	0	0	
Oil (spice oil)			K	0	0	
Oxalic acid		10%	25	0	0	
		10%	50	0	0	
		10%	60	1	0	
		10%	80	2	1	
		10%	101=K	2	1	
		25%	60	2	0	
		25%	75	2	1	
		25%	103=K	2	2	
		40%	75	2	1	
Paraffin, melted		-	20-100	0	0	
Petrol		-	20-K	0	0	
Phenol	C6H5OH	all conc.	20-50	0	0	
		70-100%	K	1	0	
Phosphoric acid	H3PO4	1%	20	0	0	
		1%	100=K	0	0	
		1%	140	0	0	
		3%	100=K	0	0	
		5%	20-60	0	0	
		5%	85	0	0	
		5%	100=K	0	0	
		10%	40	0	0	
		10%	60	0	0	
		10%	80	0	0	
		10%	101=K	0	0	
		20%	35	0	0	
		20%	60	0	0	

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MEDIUM	Chemical formula	Concentration	Temp. °C	304 cr 18 ni 9	316	CR 17 NI 12 MO2,5
		20%	102=K	0	0	
		30%	20-35	0	0	
		30%	60	0	0	
		30%	100	1	0	
		40%	35	0	0	
		40%	50	0	0	
		40%	100	1	0	
		40%	106=K	2	1	
		50%	20	0	0	
		50%	35	0	0	
		50%	50	0	0	
		50%	85	0	0	
		50%	100	1	1	
		50%	110=K	2	2	
		60%	20	0	0	
		60%	35	0	0	
		60%	100	2	1	
		60%	116=K	2	2	
		70%	35	0	0	
		70%	90	2	1	
		70%	126=K	2	2	
		80%	20	0	0	
		80%	35	0	0	
		80%	80	1	0	
		80%	100	2	1	
		80%	146=K	2	2	
		85%	20	0	0	
		85%	50	0	0	
		85%	95	2	1	
		85%	156=K	2	2	
Phosphorus pentoxide dry and moist	P2O5	dry	20	0	0	
		moist	20	1	0	
Nitric acid	HNO3	0.5%	250	0	0	
		1%	20	0	0	
		1%	50	0	0	
		1%	100=K	0	0	
		5%	20	0	0	
		5%	50	0	0	
		5%	100=K	0	0	
		5%	150	1	1	
		5%	290	2	2	
		10%	20	0	0	
		10%	50	0	0	
		10%	101=K	0	0	
		10%	145	2	2	
		20%	20	0	0	
		20%	50	0	0	
		20%	103=K	0	0	
		20%	120	1	1	
		30%	20	0	0	
		30%	70	0	0	
		30%	106=K	0	0	
		30%	120	1	1	
		50%	20	0	0	

TECHNICAL DATA

CORROSION RESISTANCE TABLE



MEDIUM	Chemical formula	Concentration	Temp. °C	304 cr 18 ni 9	316	CR 17 NI 12 MO2,5
		50%	70	0	0	
		50%	90	0	0	
		50%	110	1	1	
		50%	117=K	1	1	
		60%	20	0	0	
		60%	60	0	0	
		60%	100	1	1	
		60%	121=K	1	1	
		65%	20	0	0	
		65%	60	0	0	
		65%	70	0	0	
		65%	90	1	1	
		65%	121=K	1	1	
		80%	20	0	0	
		80%	50	0	0	
		80%	80	1	1	
		80%	106=K	2	1	
		90%	20	0	0	
		90%	80	2	2	
		90%	94=K	2	2	
		94%	30	0	0	
		97%	25	0	0	
		99%	25	1	1	
		99%	40	2	2	
		99%	84=K	2	2	
Nitrous acid	HNO2	all conc.	20	0	0	
Tin, melted	Sn	melted	300	0	0	
			400	1	1	
			500-700	2	2	
Stannous (II) chloride	SnCl2	5-24%	20	P2	P1	
		18-24%	K	P2	P2	
Toluene	C6H5CH3	100%		0	0	
Trichloroethylene (technical grade)	C2HCl3	100%	20	0	0	
Urine		-	0-60	P0	P0	
Urea	CO(NH2) 2	-	180	0	0	
Fatty acid, oil acid		100%	20	0	0	
Stearic acid		100%	80-130	0	0	
		100%	150	0	0	
		100%	180	1	0	
		100%	235	1	0	
		100%	300	2	0	
Hydrogen peroxide	H2O2	1-2%	50	0	0	
		5%	20	0	0	
		5%	40-50	0	0	
		10%	23	0	0	
		10%	40	0	0	
		10%	60-80	0	0	
		15%	22	0	0	
		15%	30-40	0	0	
		15%	50-80	0	0	
		30%	27	0	0	
		30%	40-80	0	0	
		50%	40	0	0	

TECHNICAL DATA

CORROSION RESISTANCE TABLE



MEDIUM	Chemical formula	Concentration	Temp. °C	304 cr 18 ni 9	316	CR 17 NI 12 MO2,5
Fruit juices, Wines			-	0	0	
Wine vinegar		4-5%	20	0	0	
Tartaric acid	C2H2(OH)2(COOH)2	1%	90	0	0	
		1%	100=K	0	0	
		20%	70	0	0	
		20%	100	1	0	
		30%	60	0	0	
		30%	90	1	0	
		30%	102=K	1	0	
		50%	50	0	0	
		50%	70	0	0	
		50%	90	1	0	
		50%	106=K	2	1	
		60%	80	1	0	
		60%	100	2	1	
		70%	114=K	2	1	
		75%	100	2	1	
		75%	118=K	2	1	
Iron (III) chloride (ferric chloride)	FeCl3	0,5-50%	20-100	P2	P2	
Iron (III) nitrate (ferric nitrate)	Fe(NO3) 3	all conc.	20	0	0	
Iron (III) sulphate (ferric sulphate)	Fe2(SO4) 3	10%	20-K	0	0	
Xylene	C6H4(CH3) 2	all conc.	K	0	0	
Silver nitrate	AgNO3	all conc.	20-K	0	0	
		melted	250	0	0	
Hydrochloric acid	HCl	0.1%	20-50	P1	P0	
		0.1%	100=K	P1S	POS	
		0.2%	20	P1	P0	
		0.2%	50	P1	P0	
		0.5%	20	P1	P0	
		0.5%	50	P1	P0	
		0.5%	100=K	2	2	
		1%	20	P1	P0	
		1%	50	2	P1	
		1%	60	2	2	
		1%	80	2	2	
		1%	100=K	2	2	
		2%	20	2	P1	
		2%	60	2	2	
		2%	100=K	2	2	
		3%	20	2	P1	
Hydrochloric acid (continued)	HCl	3%	60	2	2	
		3%	70	2	2	
		3%	80	2	2	
		3%	100	2	2	
		3%	101=K	2	2	
		5%	20-70	2	2	
		5%	102=K	2	2	
		8%	60	2	2	
		10%	20-35	2	2	
		10%	60	2	2	
		20%	20-35	2	2	
		30-37%	20	2	2	
Sulphur	S	melted	240	0	0	
		melted	445=K	2	1	

TECHNICAL DATA

CORROSION RESISTANCE TABLE



MEDIUM	Chemical formula	Concentration	Temp. °C	304 cr 18 ni 9	316	CR 17 NI 12 MO2,5
		boiling	570	2	2	
Sulpher chloride	S2Cl2	dry 100%	20	0	0	
		dry 100%	136=k	0	0	
		moist	20	P1	P1	
Sulphuric acid	H2SO4	0.1%	100	2	1	
		0.5%	20	0	0	
		0.5%	50	1	0	
		0.5%	100	2	1	
		1%	20	0	0	
		1%	50	1	0	
		1%	70	1	0	
		1%	85	2	1	
		1%	100	2	1	
		2%	20	0	0	
		2%	50	1	0	
		2%	60	1	0	
		3%	20	0	0	
		3%	35	1	0	
		3%	50	1	0	
		3%	85	2	1	
		3%	100	2	2	
		5%	20	1	0	
		5%	35	1	0	
		5%	60	2	1	
		5%	75	2	1	
		5%	85	2	2	
		5%	101=K	2	2	
		10%	0	2	0	
		10%	50	2	1	
		10%	60	2	1	
		10%	80	2	2	
		10%	102=K	2	2	
		20%	20	2	0	
		20%	40	2	1	
		20%	50	2	1	
		20%	60	2	2	
		20%	100	2	2	
		30%	20	2	1	
		30%	40	2	2	
		30%	60	2	2	
		40%	20	2	2	
		40%	40	2	2	
		40%	60	2	2	
		40%	90	2	2	
		50%	20	2	2	
Sulphuric acid (continued)	H2SO4	50%	40	2	2	
		50%	70	2	2	
		60%	20	2	2	
		60%	40	2	2	
		60%	70	2	2	
		70%	20	2	2	
		70%	40	2	2	
		70%	70	2	2	
		80%	20	2	1	

TECHNICAL DATA

CORROSION RESISTANCE TABLE



MEDIUM	Chemical formula	Concentration	Temp. °C	304 cr 18 ni 9	316	CR 17 NI 12 MO2,5
		80%	40	2	2	
		80%	60	2	2	
		85%	20	1	1	
		85%	30	1	1	
		85%	40	1	1	
		85%	50	2	2	
		90%	20	0	0	
		90%	30	0	0	
		90%	40	2	1	
		90%	70	2	2	
		94%	20	0	0	
		94%	30	0	0	
		94%	40	1	0	
		94%	50	1	1	
		96%	20	0	0	
		96%	30	0	0	
		96%	40	0	0	
		96%	50	1	1	
		98%	30	0	0	
		98%	40	0	0	
		98%	50	2	0	
		98%	80	2	2	
		100%	70	0	0	
		dry gas	100	0	0	
		4%	200	0	0	
		moist gas	20	PIS	0	
		2% SO2	50	0	0	
		5% SO2	20		0	
		10% SO2	160	1	0	
		20% SO2	20	1	0	
		saturated				
		with SO2	20	1	0	
		saturated				
		with SO2	135	1	0	
		saturated				
		with SO2	200	2	1	
		dry gas	100	0	0	
		100%				
		dry gas				
		liquid	25	0	0	
		100%				
		moist gas	20	1	0	
		oxygen free	100	1	0	