Beständigkeitstabelle

Korrisonsverhalten

Die Beständigkeitstabellen erläutern das Korrosionsverhalten der verschiedenen Metalle, die häufig für Bälge und Kompensatoren verwendet werden.

0	**Geeignet** Beständig.
1	**Eingeschränkte Eignung** Gleichmäßige Korrosion mit Verringerung der Stärke von bis zu 1 mm/Jahr. P = Risiko Lochkorrosion S = Risiko Spannungskorrosion / Rissbildung
2	**Nicht empfohlen** Kaum beständig .Gleichmäßige Korrosion mit Verringerung der Stärke von mehr als 1 mm/Jahr bis zu 10 mm/Jahr.
3	**Ungeeignet** Nicht beständig. Verschiedene Formen von Korrosion.

Resistance tables

Corrosion behaviour

The resistance tables indicate the corrosive behavious metals often used for bellows and expansion joints.

0	**Suitable** Ressitant
1	**Restricted suitability** Uniform corrosion with reduction in thickness of up to 1 mm/year. P = Risk of pitting corrosion S = Risk of stress corrosion cracking
2	**Not recommended** Hardly resistant. Uniform corrosion with reduction thickness fo more than 1 mm/year up to 10 mm/year
3	**Unsuitable** Not ressistant. Different forms of corrosion. .

Abkürzungen in den Tabellen

dr	trocken
mo	feucht
hy	wässrige Lösung
me	geschmolzen
cs	kalt gesättigt (bei Raumtemperatur)
sa	gesättigt (am Siedepunkt)
bp	Siedepunkt
adp	Säuretaupunkt

Table abbreviations

dr	dry condition
mo	moist condition
hy	hydrous solution
me	melted
cs	cold-saturated (at room temperature)
sa	saturated (at boiling point)
bp	boiling point
adp	acid dew pointt

Beständigkeitstabelle

Resistance tables

Medium / Medium				Werkstoffe / Materials												
Bezeichnung / Designation				Edelstahl / Stainless steel				Nickellegierungen / Nickel alloys					Reinmetalle / Pure metals			
Chemische Formel / Chemical Formula	Aggregatzustand Aggregate state	Konzentration Concentration %	Temperatur Temperature °C	unlegierte/ niedriglegierte Stähle Non/low-alloy steels	Ferritischen Stähle Ferritic steels	Austenitischen Stähle Austenitic steels	Austenitischen + Mo-Stähle Austenitic + Mo steels	2.4858 / Alloy 825	2.4816 / Alloy 600	2.4856 / Alloy 625	2.4610, 2.4619 / C-4, C-246	2.4360 / Alloy 400	Nickel Nickel	Titan Titanium	Tantal Tantalum	Aluminium Aluminium
Acetanilide (Antifebrin)			<114	0	0	0	0	0	0	0	0	0	0	0	0	0
C_8H_9NO																
Acetic Acid		5	20	3	0	0	0	0	1	0	0	1	3	0	0	0
CH_3COOH or $C_2H_4O_2$		5	bp	3	3	0	0	0	1	0	0	1		0	0	
		50	20	3	3	0	0	0	1	0	0	1	3	1	0	0
		50	bp	3	3	3	0	0	1	0	0	1	3	0	0	3
		80	20	3	3	P	P	0	1	0	0	1	3	0	0	0
		96	20	3	3	3	P	0	1	0	0	1	3	0	0	
		98	bp	3	3	3	3	0	1	0	0	1		0	0	
Acetic acid vapour		33	20		3	1	1									
		100	>50		3	3	3	0	1		0	1	3	0		1
		100	<bp		3	3	3	0	3		0	3	3	0		3
Acetic aldehyde		100	bp	1	1	0	0	0	0	0	0	0	0	0	0	0
CH_3-CHO																
Acetic anhydride		all	20	1	0	0	0	0	1	0	0	1	1	0	0	0
$(CH_3$-$CO)_2O$		100	60	3		0	0				0		1	0	0	1
		100	bp	3		0	0		3		0		1	0	0	3
Acetic anilide (antifefarine)			<114	0	0	0	0	0	0	0	0	0	0	0	0	0
Acetone		100	bp	1	0	0	0	0	0	0	0	0	0	0	0	0
CH_3COCH_3																
Acetyl chloride			20	1	1	1	1	1	1	0	0	1	1		0	1
CH_2COCl																
Acetylene	dr		20	0	0	0	0	0	0	0	0	0	0	0	0	0
C_2H_2	dr		200	1	0	0	0	0	0	0	0	0	3	0	0	1
Acetylen dichloride	hy	5	20													1
$C_2H_2Cl_2$	dr	100	20	0	P	P	P	0	0	0		0	0			0
Acetylen tetrachloride	dr	100	20	0	0	0	0				0		0	0		0
$CHCl_2$-$CHCl_2$	dr	100	bp	0	0	0	0				0		0	1		3
	mo		bp	1									1			3
Adipic acid		all	200	0	0	0	0	0	0	0	0	0	0	0	0	0
$HOOC(CH_2)_4COOH$																
Alcohol													0			
see ethyl or methyl alcohol																
Allyl alcohol		100	bp			0	0	0	0	0	1	0	0			
CH_2CHCH_2OH																
Allyl chloride		100	25				0	0	0	0		0	0			
CH_2=$CHCH_2Cl$																
Alum		100	20	1	1	0	0	0	1	0	0				0	1
$KAl(SO_4)_2$	hy	10	20	1	0	0	0				1			0	0	1
	hy	10	<80	1	1	0	0				1			0	0	
		sa			3	3	1				3					
Aluminium	me		750	3	3	3	3					3	3	3		
Al																
Aluminium acetate	hy	3	20	3	0	0	0				0		0	0		
$(CH_3$-$COO)_2Al(OH)$	hy	sa		3	0	0	0				1			0	1	
Aluminium chloride	hy	5	20	3	3	3	P	1	1	0	0	1	1	0	0	3
$AlCl_3$																
Aluminium fluoride	hy	10	25	3	3	3	3				1	1	1	0	3	1
AlF_3																
Aluminium formate				1	0	0	0	0	0	0	0		0	0	0	0
$Al(HCOO)_3$																
Aluminium hydroxide	hy	10	20	1	3	0	0	0		0	0	1		0	0	1
$Al(OH)_3$																
Aluminium nitrate				0	0	0	0	0	0	0	0	0		0	0	1
$Al(NO_3)_3$																
Aluminium oxide			20	1	1	0	0	0		0	0	3			0	3
Al_2O_3																

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Aluminium potassium sulphate																
see alum																
Aluminium sulphate	hy	10	3	<bp	3	3	0	0	1	0	1	3	1	0	0	3
$Al_2(SO_4)_3$	hy	15	3	50	3	3	1		1	1	1	1	1	0	0	3
Ammonia	dr	10	20	0	0	0	0		0	0	0	1	3	0	0	0
NH_3	hy	2	20	0	0	0	0		0	0	0	0	3	0	0	1
	hy	20	40	0	0	0	0	0	1	1	1	3	3	0	0	
	hy	sa	bp	0	0	0	0	0	3	1	1	3		0	0	
Ammonia bromide	hy	10	25	3	P	P	P	0		0	1				0	1
NH_4Br																
Ammonium acetate				1	0	0	0								0	0
CH_3-$COONH_4$																
Ammonium alum	hy	cs	20			0	0							3	0	0
$NH_4Al(SO_4)_2$																
Ammonium bicarbonate	hy			0	0	0	0	1	3			3			0	0
$(NH_4)HCO_3$																
Ammonium bifuoride	hy	10	25	3	3	3	3				0			3	0	
NH_4HF_2	hy	100	50	3	3	0	0				0			3	0	
Ammonium bromide																
see ammonia bromide																
Ammonium carbonate	hy	1	20	0	0	0	0	0	0	0	1	0			0	0
$(NH_4)_2CO_3$		50	bp	0	0	0	0	0	0	0	1	0	1		0	0
Ammonium chloride	hy	1	20	1	P	P	P	0	0	0	0	0	1	0	0	1
NH_4Cl	hy	10	100	1	P	P	P	0	0	0	0	1	1	0	1	1
	hy	50	bp	1	P	P	P	0	1	0	1	1	1	0	1	1
Ammonium fluoride		10	25	1	1	0	0				0			1	0	
NH_4F	hy	sa	70	3												
	hy	20	80	3		3	3				0				0	
Ammonium fluosilicate	hy	20	40	3		1	0	0	0	0	0	0	0			
$(NH_4)_2SIF_6$																
Ammonium formate	hy	10	20	1	0	0	0	0	0	0	0	0		0	0	0
$HCOONH_4$		10	70												0	0
Ammonium hydroxide		100	20		0	0	0	0	0	0	0	3	0	0	0	1
NH_4OH											0					
Ammonium nitrate	hy	5	20	3	0	0	0	0	1	0	0	3			0	0
NH_4NO_3	hy	100	bp	3	0	0	0	0			0	3			0	0
Ammonium oxalate	hy	10	20	1	1	0	0		1	0	0	1		0	0	
$(COONH_4)_2$	hy	10	bp	3	3	1	0		1	0		1		1	0	
Ammonium perchlorat	hy	10	20		P	P	P				1			0		
NH_4ClO_4																
Ammonium persulphate	hy	5	20		0	0	0	0	1	0	0	3	3	0	0	3
$(NH_4)S_2O_8$	hy	10	25	3	1	1	1				0	3	3	0		
Ammonium phosphate	hy	5	25	0	1	1	0	0	1	0	0	1	1	0	0	1
$NH_4H_2PO_4$																
Ammonium rhodanide		70		0	0	0								0		0
NH_4CNS																
Ammonium sulphate	hy	1	20	0	0	0	0	0	1	0	0	1	1	0	0	P
$(NH_4)_2SO_4$	hy	10	20	0	1	1	0	0	3		1	1	1	3	0	P
	hy	sa	bp	1		0					3	2		0	0	
Ammonium sulphite		cs	20		1	0	0	3	3			3	3	0	0	
$(NH_4)_2SO_3$		sa	bp		3	1	1	3	3			3	3	0	0	
Ammonium sulphocyanate																
see ammonium rhodanide																
Amyl acetate		all	20					1	1	1	1	1	1		1	1
CH_3-$COOC_5H_{11}$		100	bp	1		1	1		0	1	1	0	0			0
Amyl alcohol		100	20	0	0	0	0		0	0	0	0	0		0	
$C_5H_{11}OH$		100	bp	1	0	0	0							0		1

Beständigkeitstabelle

Resistance tables

Medium / Medium				Werkstoffe / Materials												
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Chemische Formel / Chemical Formula	Aggregatzustand Aggregate state	Konzentration Concentration %	Temperatur Temperature °C	unlegierte/ niedriglegierte Stähle Non/low-alloy steels	Ferritischen Stähle Ferritic steels	Austenitischen Stähle Austenitic steels	Austenitischen + Mo-Stähle Austenitic + Mo steels	2.4858 / Alloy 825	2.4816 / Alloy 600	2.4856 / Alloy 625	2.4610, 2.4619 / C-4, C-246	2.4360 / Alloy 400	Nickel Nickel	Titan Titanium	Tantal Tantalum	Aluminium Aluminium
Amyl chloride		100	bp	1		P	P	0	1	0	0	1	1	0	0	3
$CH_3(CH_2)_3CH_2Cl$																
Amyl thiol		100	160			0	0				0					
Aniline		100	20			0	0	0	1	0	0	3	3	0		0
$C_6H_5NH_2$		100	180			1	1					1				3
Anilin chloride	hy	5	20		P	P	P				0		3	0	0	3
$C_6H_5NH_2HCl$	hy	5	100		P	P	P				0			0		
Anilin hydrochloride																
see anilin chloride																
Anilin sulphate			20				0				0					1
Anilin sulphite	hy	10	20				0		1		0					
	hy	cs	20				0				0					
Antifreeze (Glysantine)			20		0	0	0	0	0	0	0	0	0	0	0	0
Antimony	me	100	650	3						0	0			3		3
Sb																
Antimon trichloride	dr		20	0	3	3	3						0			3
$SbCl_3$	hy		100	1	3	3	3						0			3
Aqua regia			20	3	3	3	3		3		3			0	0	
3 HCl+HNO_3																
Arsenic			65			0	0									
As			110			1	1									
Arsenic acid	hy		20	3		0	0									
H_3AsO_4	hy	90	110		3	3	3		3							3
Asphalt			20	0	0	0	0						0			0
Azobenzene			20	0	0	0	0	0	0	0	0	0		0	0	0
C_6H_5-N=N-C_6H_5																
Baking powder	mo			1	0	0	0	0	0	0	0	0				0
Barium carbonate			20	3	0	0	0	0		0	0	0		0	0	1
$BaCO_3$																
Barun chloride	hy	5	20		P	P	P	1	1	0	0	1	1	0	0	3
$BaCl_2$	hy	25	bp		P	P	P	1	1	0	0	1	1	0	0	P
Barium hydroxide	solid	100	20	0	0	0	0	0	1		0	1	0	0		3
$Ba(OH)_2$	hy	all	20	0	0	0	0	0	1		0	1	1	0		3
	hy	all	bp	0	0	0	0				1			0		
		100	815	0	0	0	0	0	1				1	0		
	hy	cs	20	0	0	0	0				1		0	0		0
	hy	sa	bp	0	0	0	0				1		0	0		3
		50	100	0	0	0	0	0	1			1	0	0		
Barium nitrate	hy	all	bp		0	0	0	0	1	0				0	0	0
$Ba(NO_3)_2$																
Barium sulphate			25	0	0	0	0	0		0		0	1	0	0	0
$BaSO_4$																
Barium sulphide			25		0	0	0									
BaS																
Basic aluminium acetat																
see aluminium acetat																
Beer		100	20	3	0	0	0	0	0	0	0	0	0	0	0	0
		100	bp	3	0	0	0	0	0	0	0	0	0	0	0	0
Benzaldehyde	dr		bp		0	0	0							1	0	0
C_6H_5-CHO																
Benzene		100	20		0	0	0	0	0	0	1	0	0	0	0	0
		100	bp		0	0	0		1	1	1	1	1	1	0	1
Benzenesulfonic acid	hy	5	40	3	0	0	0									
C_6H_5-SO_3H	hy	5	60	3	3	1	1									
Benzine		100	25		0	0	0	0	0	0	0	0		0		1
Benzoic acid	hy	all	20	1	0	0	0	0	0	0	0	0	0	0	0	0
C_6H_5-COOH	hy	all	bp	3	0	0	0	0	0	0	0	0	0	0	0	3

Beständigkeitstabelle Resistance tables

Medium / Medium				Werkstoffe / Materials												
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Chemische Formel / Chemical Formula	Aggregatzustand Aggregate state	Konzentration Concentration %	Temperatur Temperature °C	unlegierte/niedriglegierte Stähle Non/low-alloy steels	Ferritischen Stähle Ferritic steels	Austenitischen Stähle Austenitic steels	Austenitischen + Mo-Stähle Austenitic + Mo steels	2.4858 / Alloy 825	2.4816 / Alloy 600	2.4856 / Alloy 625	2.4610, 2.4619 / C-4, C-246	2.4360 / Alloy 400	Nickel Nickel	Titan Titanium	Tantal Tantalum	Aluminium Aluminium
Benzyl alcohol		all	20	1	1	0	0	0	0	0	0	0	0	0		
C_6H_5-CH_2OH																
Biphenyl		100	20	0	0	S	S	0	0	0	0	0	0	0	0	0
C_6H_5-C_6H_5		100	400	0	0	S	S	0	0	0	0	0	0	0	0	0
Blood			20	3	0	0	0	0	0	0	0	0	0	0		
Boiled oil			20	1	0	0	0	0	0	0	0	0	0	0		0
Borax	hy	cs		1	0	0	0							0	0	0
$Na_2B_4O_7$	hy	sa		3	0	0	0							0	0	1
Boric acid	hy	50	100	3	0	0	0	0	1	0	0	1	1	0	0	1
H_3BO_3	hy	50	150	3	1	0	0	0	1	0	0	1	1	0	0	1
	hy	70	150	3	1	1	1	0	1	0	0	1	1	0	0	1
Boron			20	0	0	0	0									
B			900	0												
Bromine	dr	100	20	P	P	P	P	1	0	0	0	0	0	3		3
Br	mo	100	20	P	P	P	p		3		3	0	0	0		3
Bromine water		0,03	20		P	P	P									
		1	20		P	P	P									
Bromoform	dr		20	0	0	0	0	0	0	0	0	0				3
$CHBr_3$	mo			3	0	0	0	0	0	0	0	0				3
1,3 – Butadiene								0	0	0		0	0			0
CH_2=CHCH=CH_2																
Butane		100	20	0	0	0	0	0	0	0	0	0	0			1
C_4H_{10}		100	120		1	0	0				1					
Butanol		100	20	0	0	0	0	0	0	0	0	0	0	0	0	0
CH_3-CH_2-CH_2-CH_2OH		100	bp	0	0	0	0		0		0	0		0	0	0
Butter			20	3	0	0	0	0	0	0	0					0
Buttermilk			20	3	0	0	0	0		0	0	3				0
Butylacetate			20	1	0	0	0	0		0	0	1		0	0	0
$CH_3COOC_4H_9$			bp	1	0	0	0	0		0	0	0		0	0	0
Butyric acid	hy	cs	20	3	0	0	0	1	3	0	0	1	3			0
CH_3-CH_2-CH_2-COOH	hy	sa	bp	3	3	3	0	1	3	0	0	1	3			1
Cadmium	me					3	3									
Cd																
Calcium			850	3		3	3									
Ca																
Calcium bisulphite		cs	20	3	3	0	0							0		
$CaSO_3$		sa	bp	3	3	3	0							0		
Calcium carbonate			20	1	0	0	0	0	0	0	0	0	0	0	0	0
$CaCO_3$																
Calcium chlorate	hy	10	20		P	P	P	1	1	1	1	1	1		0	
$Ca(ClO_3)_2$	hy	10	100		3	3	P	1	1	1	1	1	1		0	
Calcium chloride	hy	5	100	3	P	P	P				0			0	0	3
$CaCl_2$	hy	10	20	3	P	P	P	0	0	0	0	0	0	0	0	3
		cs		3	P	P	P	0	0	0	0	1	1	0	0	3
		sa		3	3	P	P	0	0	0	0	3		P	0	3
Calcium hydroxide				0	0	0	0	1	1	0	0	1	1	0	0	3
$Ca(OH)_2$																
Calcium hypochlorite	hy	2	20	3	3	3	P	0	3	0	0	3	3	0	0	3
$Ca(OCl)_2$	hy	cs		3	3	3	P				1				0	3
Calcium nitrate			20	3	0	0	0	0	0	0	0	0		0		0
$Ca(NO_3)_2$		all	100	3	0	0	0	0		0	0	0		0		0
Calcium oxalate	mo		20	1	0	0	0	0	0	0	0	0		0	0	3
$(COO)_2Ca$																
Calcium oxide			20	0	0	0	0	0	0	0	0	0	0	0		3
CaO																
Calcium sulphate	mo		20	1	0	0	0	0		0	0	0	0	0	0	1
$CaSO_4$	mo		bp	1	0	0	0	0		0	0	0	0	0	0	1

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Resistance tables

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Calcium sulphite	hy	cs		0	0	0	0							0	0	1
$CaSO_3$	hy	sa		0	0	0	0							0	0	1
Carbolic acid			20	0	0	0	0	0	1	0	0	1	1	0	0	0
$C_6H_5(OH)$			bp	3	3	3	0				1	0	0	0	0	3
	hy	90	bp	3	3	3	0				1	0	0	0	0	3
Carbon dioxide	dr	100	<540	0	1	0	0	0	0	0	0	0	0		0	
CO_2	dr	100	1000	3					3						0	
	mo	20	25	1	1	0	0	0	0	0	0	0			0	3
	mo	100	25	3	1	0	0	0	1	0	0	1	1	0	0	3
Carbon monoxide		100	20	0	0	0	0		0	0	0	0	0	0	0	0
CO		100	<540	3	0	0	0		3		0	1	3	0	0	1
Carbon tetrachloride	dr		20	0	0	0	0	0	0	0	0	0	0	0	0	0
CCl_4	dr		bp	1	0	0	0				0	0	0	0		3
	mo		25	1	1	1	1	0	0	0	0	0	0	0		3
	mo		bp	3			1									3
Carbonic acid																
see carbon dioxide																
Caustic-soda solution																
see sodium hydroxide																
Chiliean nitrate																
see sodium nitrate																
Chloral			20								0				0	3
CCl_3-CHO																
Chloramine				3	3	1	0	0		0	0	0				
Choric acid	hy		20	3	3	3	3	0			0			0	0	3
$HClO_3$																
Chlorianted lime																
see calcium hypochlorite																
Clorine	dr	100	200	0	0	0	0		0	0	0	0	0	1	0	0
Cl_2	dr	100	300	3	3	3	0		0	0	0	0				
	dr	100	400	3	3	3	3		0	0	0	0				
	mo		20	3	3	3	3	0			0			0	0	3
	mo		150	3	3	3	3				0			0	0	3
Clorine dioxide	hy	0,5	20	3	3	3	3				1			0	0	
ClO_2																
Chloroacetic acid		all	20	3	3	3	P	3		1	1	3		0	0	3
CH_2-Cl-COOH	hy	30	80	3	3	3	3		3		0		1	0	0	3
Chlorbenzene	dr			0	0	0	0				0					
C_6H_5Cl	mo	100	20	0	P	P	P	0	0	0	0	0	1	0	0	1
Chloroethane				0	S	S	S	0	0	0	1	0	0		0	1
C_2H_5Cl																
Chloroform	dr			1	1	1	1	0	0	0	0	0	0	0		0
$CHCl_3$	mo			3	P	P	P	0	0	0		0		0		3
Chloronaphtaline				0	0	0	0	0	0	0	0	0		0	0	0
$C_{10}H_7Cl$																
Chlorophenol				1	0	0	0				0					
$C_6H_4(OH)Cl$																
Choronaphonic acid	dr	100	20	0	0	0	0	0	0	0	0	0	0	0	0	0
HSO_3Cl	mo		20	3	3	3	1	1	1	1			3	3	0	3
Chrome alum	hy	1	20	3	3	0	0					1		0		1
$KCr(SO_4)_2$		cs		3	3	1	0		0			0	1	0		3
		sa		3	3	3	3		0			1	3	0		3

Beständigkeitstabelle

Resistance tables

Medium / Medium				Werkstoffe / Materials												
Bezeichnung / Designation Chemische Formel / Chemical Formula	Aggregatzustand Aggregate state	Konzentration Concentration %	Temperatur Temperature °C	Edelstahl / Stainless steel				Nickellegierungen / Nickel alloys					Reinmetalle / Pure metals			
				unlegierte/ niedriglegierte Stähle Non/low-alloy steels	Ferritischen Stähle Ferritic steels	Austenitischen Stähle Austenitic steels	Austenitischen + Mo-Stähle Austenitic + Mo steels	2.4858 / Alloy 825	2.4816 / Alloy 600	2.4856 / Alloy 625	2.4610, 2.4619 / C-4, C-246	2.4360 / Alloy 400	Nickel Nickel	Titan Titanium	Tantal Tantalum	Aluminium Aluminium
Chromic acid	hy	5	20	3	3	0	0	1	3	0	0	3	3	0	0	1
H_2CrO_4	hy	5	90	3	3	3	3				1	3	3	0	0	
	hy	10	20	3	0	0	0	1	3		0	3	3	0	0	1
	hy	10	65	3	3	3	3				0	3	3	0	0	
	hy	10	bp	3	3	3	3	1	3		0	3	3	0	0	3
	hy	50	bp	3	3	3	3	3	3		3	3	3	0	0	3
	hy	60	20	3	3	3	3	1	3			3	3	0	0	3
Chromic-acid anhydride see chromium oxide																
Chromium oxide CrO_3				0	0	0	0	0	0	0	0	0	0	0	0	0
Chromium sulphate		cs		3	0	0	0		0	0	0	0	0			
$Cr_2(SO4)_3$		sa		3	0	1	1		1	0	0	0	0			
Cider			20	3	0	0	0	0	0	0	0	0	0	0	0	1
			bp	3	0	0	0	0	0	0	0	0	0	0	0	1
Citric acid	hy	all	<80	3	3	0	0		0		0					
$C_6H_8O_7$	hy	all	bp	3	3	3	0		0		0					
Combustion gases freee from S or H_2SO_4 and Cl			<=400	0	0	0	0				0					
with S or H_2SO_4 and Cl			>adp and <=400	0	0	0	0				0					
Copper (II) aceteate	hy		20	3	0	0	0	0	1	0	0	1	1	0	0	3
$Cu_2(CH_3COO)_4$	hy		bp	3	0	0	0							0		3
Copper (II) chloride	hy	1	20	3	3	P	P	0	3		1	3	3	0	0	3
$CuCl_2$	hy	cs		3	3	3	3	3	3		0	3	3	0	0	3
Copper (II) nitrate	hy	1	20		0	0	0	0	3		0	3	3	0	0	3
$Cu(NO_3)_2$	hy	50	bp		0	0	0		3		1	3	0	0	3	
	hy	cs			0	0	0	0	3		1	3	3	0	0	3
Copper (II) sulphate	hy	cs		3	0	0	0	0	3		0	3	3	0	0	3
$CuSO_4$	hy	sa		3	1	0	0	0	3		0	3	3	0	0	3
Cresol		all	20	3	1	0	0		0	0		0	0	0		0
$C_6H_4(CH_3)OH$		all	bp	3	1	1	0		0	0	1	0	0	0		3
Crotonaldehyde			20	3		0	0	0	0	0	0	0				0
CH_3-CH=CH-CHO			bp			1	0	0	0	0	0	0				0
Cyclohexane $(CH_2)_6$				0	0	0	0	0	0	0	0	0	0	0	0	0
Diammonium phosphate see ammonium phosphate																
Dibromethane CH_2Br-CH_2Br				1		0	0						0			3
Dichlorflourmethane	dr		bp			0	0	0	0	0	0	0			0	0
CF_2Cl_2	dr		20			0	0	0	0	0	0	0			0	0
	mo		20			0	0	0	0	0	0	0			0	0
Dichloroethane	dr	100	20	0	P	P	P	1	0					0	0	0
CH_2Cl-CH_2Cl	mo	100	20		P	P	P								0	
Dichloroethylene see acetylene dichloride																
Diethyl ether $(C_2H_5)_2O$				0	0	0	0	0	0	0	1	0	0	0	0	0
Ethane CH_3-CH_3			20	0	0	0	0	0	0	0	0	0	0	0	0	0
Ether see diethyl ether																
Ethereal oils			20	1	0	0	0	0	0	0	0	0	0	0	0	0
Ethyl alcohol		all	20	0	0	0	0	0	0	0	0	0	0	0	0	0
C_2H_5OH		all	bp	1	0	0	0	0	0		0	0	0	0	0	0

Beständigkeitstabelle

Resistance tables

Medium / Medium				Werkstoffe / Materials												
Bezeichnung / Designation				Edelstahl / Stainless steel				Nickellegierungen / Nickel alloys					Reinmetalle / Pure metals			
Chemische Formel / Chemical Formula	Aggregatzustand / Aggregate state	Konzentration / Concentration	Temperatur / Temperature	unlegierte/ niedriglegierte Stähle / Non/low-alloy steels	Ferritischen Stähle / Ferritic steels	Austenitischen Stähle / Austenitic steels	Austenitischen + Mo-Stähle / Austenitic + Mo steels	2.4858 / Alloy 825	2.4816 / Alloy 600	2.4856 / Alloy 625	2.4610, 2.4619 / C-4, C-246	2.4360 / Alloy 400	Nickel / Nickel	Titan / Titanium	Tantal / Tantalum	Aluminium / Aluminium
		%	°C													
Ethylbenzene				1	0	0	0	0	0	0	0	0	0	0	0	0
C_6H_5-C_2H_5																
Ethyl chloride																
see chloroethane																
Ethylene			20	0	0	0	0									0
CH_2=CH_2																
Ethylene dibromide																
see dibromethane																
Ethylene dichloride																
see dichloroethane																
Ethylene glycol		100	20	0	0	0	0	0	1	0	0	1	1	0	0	0
CH_2OH-CH_2OH																
Exhaust gases																
see combustion gases																
Fats				0	0	0	0	0	0	0	0	0	0	0	0	0
Fatty acid		100	20	0	0	0	0	0	0	0	0	1	0	0	0	0
$C_{17}H_{33}COOH$		100	60	3	0	0	0	0	0	0	0	0	0	0	0	1
		100	150	3	3	0	0	0	0	0	0	1	0	0	0	3
		100	180	3	3	3	0	0	0	0	0	1	0	0	0	3
		100	300	3	3	3	0	0	0	0	0		0	0	0	3
Fixing salt																
see sodium thiosulphate																
Flue gases																
see combustion gases																
Fluorine	mo		20	3	3	3	3				0	0	0	3		3
F	dr	100	20	0	0	0	0				0	0	0	0		3
	dr	100	200	0	0	P	p				0	0	0	0		3
	dr	100	500	3							0					3
Fluorosilicic acid		100	20	3	3	P	P				1					3
$H_2(SiF_6)$		25	20	3	3	3	3	1	1	1	1	3	1	3		3
		70	20	3	3	3	3				1					3
	Dampf			3	3	3	3				1			2		3
Formaldehyde	hy	10	20	3	0	0	0	0	0	0	0	0	0	0		1
CH_2O	hy	40	20	3	0	0	0	0	0	0	0	0	0	0		1
	hy	all	bp	3	0	0	0				0			0		3
Formic acid		10	20	3	3	1	0	0	1	0	0	1	1	0	0	0
HCOOH		10	bp	3	3	3	1	0	1	0	0	1	3	0		3
		80	bp	3	3	3	3	0	1	0	0	3	1	3		3
		85	65	3	3	3	3	0	1	0	0	2	1	3		3
Fuels																
Benzine			20		0	0	0	0	0	0	0	0	0			0
			bp		0	0	0	0	0	0	0	0	0			0
Benzene			20		0	0	0	0	0	0	0	0	0			0
			bp		0	0	0	0	0	0	0	0	0			0
Benzine-alcohol mixture			20		0	0	0	0	0	0	0	0	0			0
Diesel oil			20		0	0	0	0	0	0	0	0	0			0
Furfural		100	25	1	1	1	1				0				0	0
		100	bp	3	1	1	1				0				0	0
Gallic acid	hy	1	20	1	0	0	0				0				0	
$C_6H_2(OH)_3COOH$		100	20	3	0	0	0								0	
		100	bp	3	0	0	0		3						0	
Gelantine			20	0	0	0	0		0		0				0	
			80	1	0	0	0		0			0	0	0		0
Glacial acetic acid																
see acetic acid																
Glass	me		1200	1		1	1									

Beständigkeitstabelle

Resistance tables

Medium / Medium				Werkstoffe / Materials												
Bezeichnung / Designation				Edelstahl / Stainless steel				Nickellegierungen / Nickel alloys					Reinmetalle / Pure metals			
Chemische Formel / Chemical Formula	Aggregatzustand Aggregate state	Konzentration Concentration %	Temperatur Temperature °C	unlegierte/niedriglegierte Stähle Non/low-alloy steels	Ferritischen Stähle Ferritic steels	Austenitischen Stähle Austenitic steels	Austenitischen + Mo-Stähle Austenitic + Mo steels	2.4858 / Alloy 825	2.4816 / Alloy 600	2.4856 / Alloy 625	2.4610, 2.4619 / C-4, C-246	2.4360 / Alloy 400	Nickel Nickel	Titan Titanium	Tantal Tantalum	Aluminium Aluminium
Glauber salt																
see sodium sulphate																
Gluconic acid		100	20	1	0	0	0	0	0	0	0	0	0	0		0
$CH_2OH(CHOH)_4$-COOH																
Glucose	hy		20		0	0	0							0		0
$C_6H_{12}O_6$																
Glutamic acid			20	1	P	P	0	0	1	0	0	1	1			
HOOC-CH_2-CH_2-CHNH_2-COOH			80	3	P	P	0		1		1					
Glycerine		100	20	0	0	0	0	0	0	0	0	0	0	0	0	0
CH_2OH-CHOH-CH_2OH		100	bp	1	1	0	0		0	0	0		0		0	0
Glycol																
see ethylen glycol																
Glycolic acid			20	3	1	1	1				0			0		1
CH_2OH-COOH			bp	3	3	3	3				0			0		1
Glysanitine																
see antifreeze																
Hexachlorethane			20			0	0	0	0	0	0	0		0		3
CCl_3-CCl_3																
Hexamenthylentetramin	hy		20	60	1		0	0			0					
$(CH_2)_6N_4$	hy		80	60	3		0	0			0					
Household ammonia																
see ammonium hydroxide																
Hydrazene			20	0		0		3	3			3	3			1
N_2N-NH_2																
Hydrazine sulphate	hy	10	bp	3		3	3									
$(NH_2)_2H_2SO_4$																
Hydrobromic acid			20	3	3	3	3	3	3	3	3	3			0	3
Aqueous solution of hydrogen bromide (HBr)																
Hydrochloric acid		0,2	20	3	3	P	P				0		P	0	0	
HCl		0,5	20	3	3	3	P				0			0	0	
		0,5	bp	3	3	3	3				3			1	0	
		1	20	3	3	3	P	3	3		0	1	1	0	0	3
		2	65	3	3	3	3				0			0	0	3
		5	20	3	3	3	3	3	3		0	1	3		3	
		15	20	3	3	3	3	3	3		0	3	3	3	0	3
		32	20	3	3	3	3				0			3	0	3
		32	bp	3	3	3	3				3			3	0	3
Hydrochloric-acid gas																
see hydrogen chloride																
Hydrofluoric acid		10	20	3	3	3	3	1	1	0	0	1	1	3	3	3
HF		50	20	1				1	1	1	1	1	1	3	3	3
		80	bp								1	1		3	3	3
		90	30					1	1			0	1	3	3	3
Hydrogen			<300	0		0	0				0					0
H			>300	3		0	0				0					0
Hydrogen bromide	dr	100	20	0	0	0	0									
HBr	mo	30	20	3	3	3	3							0		
Hydrogen chloride	dr		20	0	3	1	1	0	0	0	0					1
HCl	dr		100	0	3	3	3	0	0	0	0					1
	dr		250	1	3	3	3	0	0	0	0					3
	dr		500	3	3	3	3		1		0					3
Hydrogen cyanide	dr		20	3	0	0	0	0	1	0	0	1	0	0	0	0
HCN	hy	20	20	3	1	0	0	0	1	0	0	1	0	0	0	0
	hy	cs	20	3	1	0	0	0	0	0	0	3	0	0	0	0
Hydrogen fluoride		5	20		3	3	3	3	0	0	0	0	0	3	3	3
HF		100	500	3	3	3	3	3	3		0	3	0	3	3	3

Beständigkeitstabelle

Resistance tables

Medium / Medium				Werkstoffe / Materials												
Bezeichnung / Designation				Edelstahl / Stainless steel				Nickellegierungen / Nickel alloys					Reinmetalle / Pure metals			
Chemische Formel / Chemical Formula	Aggregatzustand Aggregate state	Konzentration Concentration %	Temperatur Temperature °C	unlegierte/ niedriglegierte Stähle Non/low-alloy steels	Ferritischen Stähle Ferritic steels	Austenitischen Stähle Austenitic steels	Austenitischen + Mo-Stähle Austenitic + Mo steels	2.4858 / Alloy 825	2.4816 / Alloy 600	2.4856 / Alloy 625	2.4610, 2.4619 / C-4, C-246	2.4360 / Alloy 400	Nickel Nickel	Titan Titanium	Tantal Tantalum	Aluminium Aluminium
Hydrogen peroxide H_2O_2		all	20	3	3	0	0	0	1	0	0	1	3	1	3	0
Hydrogen sulphide	dr	100	20	1	S	0	0	0	1		0	1	0	0	0	0
H_2S	dr	100	100	3	S	0	0									0
	dr	100	200	3	3	0	0									0
	mo		20	3	3	0	0		0	0	0	0	1	0		0
Hydroiodic acid	dr		20	0	0	0	0									
	mo		20	3	3	3	3									
Hypochlorous acid HOCl			20	3	3	3	3							0		3
Indol			20	0	0	0	0	0	0	0	0	0	0	0		0
Ink see gallic acid																
Iodine	dr	100	20	0	P	P	P				0	0		3		0
J2	mo		20	3	3	3	3				1	3	3	0		3
	mo		bp	3	3	3	3				1	3	3			3
Iodoform	dr		60	0	0	0	0									0
CHJ_3	mo		20	3	3	P	P									
Iron (II) chloride	hy	10	20	0		P	P				1			0	0	3
$FeCl_2$	hy	cs						3	3		0	3	3	0	0	3
Iron (III) chloride	dr	100	20	0	P	P	P	1	3		0	3	3	0	0	3
$FeCl_3$	hy	5	25	3	3	3	3	3	3		0	3	3	0	0	3
	hy	10	65	3	1	1	1				3		0	0		
	hy	50	20	3	3	3	3		3		1			0	0	
Iron (III) nitrate	hy	10	20	3	0	0	0				0			0		
$Fe(NO_3)_3$	hy	all	bp	3	0	0	0	3	3	3	3	3	0			
Iron (II) sulphate $FeSO_4$	hy	all	bp	0	0	0	0				0	0	3	0		3
Iron (III) sulphate	hy	<30	20	3	0	0	0	0	3		0	1	3	0	0	3
$Fe(SO_4)_3$	hy	all	bp	3	1	0	0				0			0	0	3
Isatine $C_8H_5NO_2$			20	1	0	0	0	0	0	0	0	0	0	0		0
Kalinite see alum																
Ketene			20		0	0	0	0	0	0	0		0	0	0	0
$R_2C=C=O$			bp		0	0	0	0	0	0	0		0	0	0	0
Lactic acid	hy	1	20	3	3	0	0	0		0	0			0	0	0
$C_3H_6O_3$	hy	all	20	3	3	1	0				0			0	0	3
	hy	10	SP	3	3	3	3	0	3		0	3	3	0	0	3
	hy	all	SP	3	3	3	1				0			0	0	3
Lactose $C_{12}H_{22}O_{11}$	hy		20	0	0	0	0	0	0	0	0	0	0	0		0
Lead	me		388	3	1	1	1		0			3		0	0	
Pb			900	3	3	3	3				0					
Lead acetate	me			3	0	0	0				0	0				3
$(CH_3\text{-}COO)_2Pb$																
Lead acide		<20	<30					0	0	0		1	1			
$Pb(N_3)_2$																
Lead nitrate	hy		100	1	0	0	0	0	0	0	0	0		0	0	0
$Pb(NO_3)_2$																
Lime see calcium oxide																
Lithium	me		300	0	0	0	0	0	0	0	0	3		0		3
Li																
Lithium chloride	hy	cs		3	3	3	L	0	0	0	0	1	0	0		
LiCl																

Beständigkeitstabelle

Resistance tables

Medium / Medium				Werkstoffe / Materials												
Bezeichnung / Designation				Edelstahl / Stainless steel				Nickellegierungen / Nickel alloys					Reinmetalle / Pure metals			
Chemische Formel / Chemical Formula	Aggregatzustand Aggregate state	Konzentration Concentration %	Temperatur Temperature °C	unlegierte/niedriglegierte Stähle Non/low-alloy steels	Ferritischen Stähle Ferritic steels	Austenitischen Stähle Austenitic steels	Austenitischen + Mo-Stähle Austenitic + Mo steels	2.4858 / Alloy 825	2.4816 / Alloy 600	2.4856 / Alloy 625	2.4610, 2.4619 / C-4, C-246	2.4360 / Alloy 400	Nickel Nickel	Titan Titanium	Tantal Tantalum	Aluminium Aluminium
Lithium hydroxide	hy	all	20	1	0	0	0	0	0	0		0	0	0		
LiOH																
Magnesium	me		650		1	3	3	3	3		3	3	3	0	0	3
Mg																
Magnesium carbonate	hy		20	0	0	0	0	0	0	0	0	0	0	0	0	1
$MgCO_3$	hy		bp	0	0		0	0	0	0	0	0	0	0	0	1
Magnesium chloride	hy	5	20	3	3	P	P	0	0	0	0	0	0	0	0	3
$MgCl_2$	hy	5	bp	3	3	3	3	0	0	0	0	0	0	0	0	3
	hy	50	bp	3	3	3	3				0			0	0	3
Magnesium hydroxide	hy	cs		0		0	0	0	0	0	0	0	0	0	0	3
$Mg(OH)_2$	hy	sa		0		0	0	0	0	0	0	0	0	0	0	3
Magnesium nitrate		cs		0	0	0	0	3	3		3	0	3	0	0	1
$Mg(NO_3)_2$																
Magnesium oxide																
MgO																
see magnesium hydroxide																
Magnesium sulphate	hy	0,1	20	0	1	0	0				0			0	0	3
$MgSO_4$	hy	5	20	3	1	0	0	0	1	0	0	1	1	0	0	0
	hy	50	bp	3	1	0	0				1			0	0	0
Maleic acid	hy	5	20	3	0	0	0	0	1	0	0	1	1			0
HOOC-HC=CHCOOH	hy	50	100	3	0	0	0		1							0
Maleic anhydride		100	285								0					
Mallic acid	hy		20	3	3	0	0	0	1	0	0	1	3	0	0	0
	hy	50	100	3	3	0	0	0	1	0	0	1	3	0	0	0
Malonic acid			20			1	1	1	1	1	1	1	1	1		1
$CH_2(COOH)_2$			50					1	1	1	1	1	1	1		
			100					3	3		3	3	3	3		
Manganese (II)-chloride	hy	5	100	3	P	P	P	1	1	1		1	1	0	0	
$MnCl_2$	hy	50	20	1	3	P	P	1	1	1		1	1	0	0	
Manganese (II)-sulphate		cs		0	0	0	0	0	0	0	0	0	0	0		
$MnSO_4$																
Maritime climate	mo			2P	1P	1P	0	0	0	0	0	0	0	0	0	2
Menthol					0	0	0	0	0	0	0	0	0	0	0	
$C_{10}H_{19}OH$																
Mercury	dr	100	20	0	P	P	P		0	0	0	3	0	0		1
Hg		all	<500	1	1	1	0		0	0	0	3		0	0	3
Methane			200	0	0	0	0	0	0	0	0	0	0			0
CH_4		600									0		0			
Methanol																
see methyl alcohol																
Methyl acetate		60	20	0		0	0				0			0	0	
CH_3COOCH_3		60	bp	0		0	0				0			0	0	
Methyl alcohol		<100	20		0	0	0	0	0	0	0	0	0	0	1	
CH_3OH		100	bp	1	3	1	1		0	0	0	0	0	0	0	1
Methylamine	hy	25	20	1	0	0	0	0		0	0	3		0		0
CH_3-NH_2																
Methyl chloride	dr	100	20	0	0	0	0		0	0	0	0	0	0		0
CH_3Cl	mo		20	3	P	P	P		0	0				0		3
	mo		100		P	P	P		0	0				0		3
Methyldehyde																
see formaldehyde																
Methylen dichloride	dr		20	0	P	P	P							0		0
CH_2Cl_2	mo		20		P	P	P	0		1	1	1	1	0		3
	mo		bp		P	P	P	1		1	1	1	1	0		3
Milk of lime			20	0	1	0	0									0
$Ca(OH)_2$			bp	0	1	0	0									0

Beständigkeitstabelle

Resistance tables

Medium / Medium						Werkstoffe / Materials												
Bezeichnung / Designation			Aggregatzustand Aggregate state	Konzentration Concentration	Temperatur Temperature	Edelstahl / Stainless steel				Nickellegierungen / Nickel alloys					Reinmetalle / Pure metals			
Chemische Formel / Chemical Formula						unlegierte/ niedriglegierte Stähle Non/low-alloy steels	Ferritischen Stähle Ferritic steels	Austenitischen Stähle Austenitic steels	Austenitischen + Mo-Stähle Austenitic + Mo steels	2.4858 / Alloy 825	2.4816 / Alloy 600	2.4856 / Alloy 625	2.4610, 2.4619 / C-4, C-246	2.4360 / Alloy 400	Nickel Nickel	Titan Titanium	Tantal Tantalum	Aluminium Aluminium
				%	°C													
Milk suger																		
see lactose																		
Mixed acids																		
HNO_3	H_2SO_4	H_2O																
%	%	%																
90	10	-			20	0		0	0					3	3	0		1
50	50	-			20			0	0							0		3
50	50	-			60		3	1	1									
50	50	-			120		3	3	3									
38	60	2			50		3	0	0									
25	75	-			50		3	1	0									
25	75	-			90		3	3	1									
25	75	-			157		3	3	3									
15	20	65			20	3	3	0	0									
15	20	65			80		3	1	0									
10	70	20			50		3	0	0									
10	70	20			90		3	1	0									
5	30	65			20	3	3	0	0									
5	30	65			90	3	3	0	0									
5	30	65			bp	3	3	3	1									
5	15	80			134		3	1	1									
Molasses							0	0	0	0	0	0	0	0	0	0	0	0
Monochloroacetic acid																		
see chloroacetic acid																		
Naphtaline				100	20	0	0	0	0							0		1
$C_{10}H_8$				100	390	0	0	0	0									
Naphtaline chloride				100	45								0					
				100	200								0					
Naphthaline-sulphonic acid				100	20	0		0	0				0					
$C_{10}H_7SO_2H$				100	bp		3	3	3				0					
Naphtenic acid				100	20		P	P	P	0	0	0		0	1			0
Nickel (II) chloride			hy	10	20	3	P	P	P	0	1	0	0	1	1	0		
$NiCl_2$			hy	10	bp	3	3	P	P				0			0		
				sa	70				0				1					
Nickel (II) nitrate			hy	10	25	3	0	0	0	0	0	0	0	3	3	0	0	3
$Ni(NO_3)_2$			hy	<100	25	3	0	0	0	0	3		1	3	3	0	0	3
Nickel (II) sulphate			hy		20	3	0	0	0	0	1	1	1	1	3	0		
$NiSO_4$			hy		bp	3	0	0	0		0		1	1	3	0		
Nitric acid				1	20	3	0	0	0				0	0	0	0	0	
HNO_3				1	bp	3	0	0	0				1	3	3	0	0	
				5	20	3	0	0	0	0	3		0	3	3	0	0	3
				5	bp	3	1	0	0				1			0	0	
				10	bp	3	1	0	0				1	3	3	0	0	
				15	bp	3	1	0	0				3			0	0	
				25	bp	3	3	0	0				3			1	0	
				50	bp	3	3	3	1	0	3		3	3	3	1	0	3
				65	20	3	0	0	0		0		0			0	0	1
				65	bp	3	3	3	3	0	3		3	3	3	0	0	3
				99	bp	3	3	3	3	0	3		3	3	3	0	3	
				20	290	3	3	3	3				3			3	0	
				40	200	3	3	3	3				3			3	0	
Nitrobenzene						0	0	0	0	0	0	0	1	0	0	0		0
$C_6Hx(NO_2)y$																		
Nitrobenzoic acid			hy		20	1	0	0	0	0	0	0	0	0	0			0
$C_6H_4(NO_2)COOH$																		
Nitroglycerine					20	0	0	0	0									0
$C_3H_5(ONO_2)_3$																		

Beständigkeitstabelle

Resistance tables

Medium / Medium				Werkstoffe / Materials												
Bezeichnung / Designation				Edelstahl / Stainless steel				Nickellegierungen / Nickel alloys					Reinmetalle / Pure metals			
Chemische Formel / Chemical Formula	Aggregatzustand Aggregate state	Konzentration Concentration %	Temperatur Temperature °C	unlegierte/ niedriglegierte Stähle Non/low-alloy steels	Ferritischen Stähle Ferritic steels	Austenitischen Stähle Austenitic steels	Austenitischen + Mo-Stähle Austenitic + Mo steels	2.4858 / Alloy 825	2.4816 / Alloy 600	2.4856 / Alloy 625	2.4610, 2.4619 / C-4, C-246	2.4360 / Alloy 400	Nickel Nickel	Titan Titanium	Tantal Tantalum	Aluminium Aluminium
Nitrogen		100	20	0		0	0		0	0	0	0	0	0		0
N		100	900	1									3			
Nitrous acid																
HNO_2																
similar to nitric acid																
Oleic acid																
see fatty acid																
Oleum																
see sulfor trioxide																
Oxalic acid	hy	all	20	3	3	0	0	1	1	0	0	1	3	0	0	0
$C_2H_2O_4$	hy	10	bp	3	3	3	3	0	1	0	0	1	3	3	0	3
	hy	sa		3	3	3	3	1	1	1	1	1				
Oxigen			500	1	0	0	0					0				0
O																
Ozone					0	0	0	0	0	0	0	0		0		0
Parafin			20	0	0	0	0							0		0
C_nH_{2n+2}	me		120	0	0	0	0							0		0
Perchlorethylene			20	0	0	0	0							0		0
C_2Cl_4			bp	0	1	1	1							0		3
	mo			3	P	P	P									
Perchlorethane																
see hexachlorethane																
Perchloric acid (60%)		10	20	3	3	3	3							0		3
$HClO_4$		100	20	3	3	3	3							0		
Perhydrol																
see hydrogene superoxide																
Petroleum			20	0	0	0	0		0	0	0	0	0	0		0
			bp	0	0	0	0		0	0	0	0	3	0		0
Petrol																
see benzene																
Phenol																
see carbolic acid																
Phlororglucinol			20		0	0	0	0	0	0	0	0		0	0	0
$H_6H_3(OH)_3$																
Phosgene	dr		20		0	0	0	0	0	0	0	0		0	0	0
$COCl_2$																
Phosphoric acid	hy	1	20	3	0	0	0	0	0	0	0	1	0	0	0	3
H_3PO_4	hy	10	20	3	3	0	0				0			0	0	
	hy	30	bp	3	3	1	1				1	1	3	3	0	3
	hy	60	bp	3	3	3	3				1			3	0	
	hy	80	20	3	3	1	0		0	0	0			3	0	
	hy	80	bp	3	3	3	3		0		3		3	3	0	
Phosphorous	dr		20	0	0	0	0									
P																
Phosphorous pentachlorite	dr	100	20	0	0	0					0		1			
PCl_5																
Phtalic acid and			20	0		0	0				0	0	0			0
phtalic anhydride			200		0	3	0				0	0	0			
$C_8H_4(COOH)_2$	dr		bp			0	0	0							0	0
Picric acid	hy	3	20	3	0	0	0							0		1
$C_6H_2(OH)(NO_2)_3$	hy	cs		3	0	0	0	3	3		0	3	3	0		0
	me		150	3	0	0	0							0		3
Plaster																
see calcium sulphate																
Potash lye																
see potassium hydroxide																

Beständigkeitstabelle

Resistance tables

Medium / Medium				Werkstoffe / Materials												
Bezeichnung / Designation Chemische Formel / Chemical Formula	Aggregatzustand Aggregate state	Konzentration Concentration %	Temperatur Temperature °C	Edelstahl / Stainless steel				Nickellegierungen / Nickel alloys					Reinmetalle / Pure metals			
				unlegierte/ niedriglegierte Stähle Non/low-alloy steels	Ferritischen Stähle Ferritic steels	Austenitischen Stähle Austenitic steels	Austenitischen + Mo-Stähle Austenitic + Mo steels	2.4858 / Alloy 825	2.4816 / Alloy 600	2.4856 / Alloy 625	2.4610, 2.4619 / C-4, C-246	2.4360 / Alloy 400	Nickel Nickel	Titan Titanium	Tantal Tantalum	Aluminium Aluminium
Potassium	me		604	0		0	0				1			0		0
K			80			0	0				1			0	1	0
Potassium acetate	me	100	292	1		0	0							0		
CH_3-COOK	hy		20	1	0	0	0		0	0	0	0	0	0		
Potassium bisulphate	hy	5	20	3	3	2	0							0		
KHSO4	hy	5	90	3	3	3	3							3		
Potassium bitartrate	hy	cs		3	3	0	0						0	0		0
$KC_4H_5O_6$	hy	sa		3	3	3	1						1	0		0
Potassium bromide	hy	5	30	3	P	P	P	0	1	0	0	1	0	0	0	3
KBr																
Postassium carbonate	hy	50	20	1	0	0	0	0	0	0	0	0	0	0	0	3
K_2CO_3	hy	50	bp	3	3	0	0	0	0	0	0	0	0	0	0	3
Potassium chlorate	hy	5	20	3	0	0	0	0	1	0		1	1	0		0
$KClO_3$	hy	sa		3	0	0	0	0	3	0	0	3	3	0	0	1
Potassium chloride	hy	10	20	3	3	P	P	0	0	0	0	0				1
KCl	hy	10	<bp	3	3	P	P				1					1
	hy	30	bp	3	3	P	P				1	0		0		0
	hy	cs		3	P	P	P				1					
	hy	sa		3	3	P	P				1					
Potassium chromate	hy	10	20	0		0	0	0	0	0	0	1	0	0		0
K_2CrO_4	hy	10	bp	1		0	0							0		0
Potassium cyanide	hy	10	20	3	0	0	0	0	3		0	1	3		0	3
KCN	hy	10	bp	3	0	0	0									3
Potassium dichromate	hy	10	40	3	0	0	0	1	1	1	1	1	1	0	0	0
$K_2Cr_2O_7$	hy	25	40	3	3	0	0	1	1	1	1	1	1	0	0	0
	hy	25	bp	3	3	0	0							0	0	0
Potassium ferricyanide	hy	1	20	0	0	0	1	1	0	0	0	0	0	0	0	
$K_3(Fe(CN)_6)$	hy	cs			0	0	0		0		0	0	0	0	0	0
	hy	sa		3	0	P	0		0		0		0	0	0	0
Potassium ferrocyanide	hy	1	20		0	0	0	1	1	0	0	0	1	0	0	0
$K_4(Fe(CN)_6)$	hy	25	20		0	0	0	0	0	0	0	0	0	0	0	0
	hy	25	bp		1	1	0	0	0	0	0	0	0	0	0	0
Potassium fluoride	hy	cs		0	0	0	0				0					3
KF	hy	sa		1	0	0	0				0					
Potassium hydroxide	hy	10	20		0	S	S	1	1	1	1	0	0	0	3	3
	hy	20	bp		0	S	S	1	1	1	1	0	0	0	3	3
	hy	30	bp		3	S	S	1	3		1	0	0	3	3	3
	hy	50	20	S	0	S	S	1	1	1	0	0	0	0	3	3
	hy	50	bp	S	3	3	3	1	3		1	0	0	3	3	3
	hy	sa		S	3	S	S				1				3	3
	me	100	360	S	3	3	3		3		3		0	3	3	3
Potassium hypochloride	hy	all	20		P	P	P	3	3		0	3	3	0		3
KClO	hy	all	bp		P	P	P	3	3		1	3	3	0		3
Potassium iodide	hy		20	0	P	P	P	0	1	1	0	3	3	0	0	3
KJ	hy		bp	0	3	P	P	0	1	1	0	3	3	0	0	3
Potassium nitrate	hy	all	20		0	0	0	0	1	1	1	1	1	0		0
KNO_3	hy	all	bp		0	0	0				1			0		1
Potassium nitrite		all	bp	1	0	0	0	1	0	0	0	0	1			
KNO_2																
Potassium permanganate	hy	10	20	0	0	0	0				0	1	0	0	0	0
$KMnO_4$	hy	all	bp	3	1	1	1	0	1	1	1	1	0	0	0	0
Potassium persulphate	hy	10	50	3	3	0	0		0		0	3	3	0		3
$K2S_2O_8$																
Potassium silicate			20	1	0	0	0	0	0	0	0	0	0	0		3
K_2SiO_3																
Potassium sulphate	hy	10	25	3	0	0	0	0	0	0	0	0	1	0	0	0
K_2SO_4	hy	all	bp	0	0	0	0	0	0	0	0	0	0	0	0	1

Beständigkeitstabelle

Resistance tables

Medium / Medium				Werkstoffe / Materials												
Bezeichnung / Designation				Edelstahl / Stainless steel				Nickellegierungen / Nickel alloys					Reinmetalle / Pure metals			
Chemische Formel / Chemical Formula	Aggregatzustand / Aggregate state	Konzentration / Concentration %	Temperatur / Temperature °C	unlegierte/niedriglegierte Stähle / Non/low-alloy steels	Ferritischen Stähle / Ferritic steels	Austenitischen Stähle / Austenitic steels	Austenitischen + Mo-Stähle / Austenitic + Mo steels	2.4858 / Alloy 825	2.4816 / Alloy 600	2.4856 / Alloy 625	2.4610, 2.4619 / C-4, C-246	2.4360 / Alloy 400	Nickel / Nickel	Titan / Titanium	Tantal / Tantalum	Aluminium / Aluminium
Porpionic acid																
see acetic acid																
Protein solutions			20	1	0	0	0	0	0	0	0	0		0	0	0
Prussic acid																
see hydrogen cyanide																
Pyridine	dr		20		0	0	0							0		0
C_5H_5N		all	bp		0	0	0		0	0	0	0	0	0		0
Pyrogallol		all	20	3	0	0	0				0			0		0
$C_6H_3(OH)_3$		all	bp	3	0	0	0				1			0		0
Quinine bisulphate	dr		20	3	3	3	0	0		0	0	1		0	0	
Quinine sulphate	dr		20	3	0	0	0	0		0	0	1		0	0	
Quinol				3		0	0	0	0	0		1	1			0
HO-C_6H_4-OH																
Salicytic acid	dr	100	20	1	0	0	0	0	1	0	0	1	1	0	0	0
HOC_6H_4COOH	mo	100	20	3		0	0				1	0		0		
	hy	cs		3		0	0	0	1	0	0	0	0	0		1
Salmiac																
see ammonium chloride																
Salpetre																
see potassium nitrate																
Seawater																
at flow velocity v (m/s):																
0 < v £ 1,5			20	1	P	P	P	0	P	0	0	P	P			
1,5 < v < 4,5			20	1	0	0	0	0	0	0	0	0	1			
Siliceours flux acid																
see fluorsilicic acid																
Silver nitrate	hy	10	20	3	0	0	0	0	1	1	1	3	3	0	0	3
$AgNO_3$	hy	10	bp	3	0	0	0						3	0		
	hy	20	60	3	0	0	0							0		
	hy	40	20	3	0	0	0				1			0		
	me	100	250	3	3	0	0							0		
Soap	hy	1	20	0	0	0	0		0	0		0	0	0		0
	hy	1	75	0	0	0	0					0	0			0
	hy	10	20	0	0	0	0						0	0		0
Sodium (O_2£0,005%)			200	0	0	0	0							0		1
Na	me		600	3	1	0	0							0		
Sodium acetate	hy	10	25	0	0	0	0		0	0	0	0	0	0	0	0
CH_3-COONa	hy	sa		3	0	0	0				0			0	0	
Sodium aluminate		100	20	0	0	0	0							0	0	
Na_3AlO_3	hy	10	25	0	0	0	0				1			0		3
Sodium arsenate	hy	cs		0	0	0	0							0		0
Na_2HAsO_4																
Sodium bicarbonate		100	20		0	0	0							0		0
$NaHCO_3$	hy	10	20	0	0	0	0	0	1	1	1	1	1	0		0
	hy	cs			0	0	0	0	1	0	0	1	1	0	0	1
	hy	sa			0	0	0				1			0		
Sodium bisulphate	hy	all	20	3	3	3	0	0	1	1	1	1	1	0	0	0
$NaHSO_4$	hy	all	bp	3	3	3	1	0	1	1	1	1	1	0	0	1
Sodium bisulphite	hy	10	20	3	3	0	0				1		0	0		0
$NaHSO_3$	hy	50	20	3	0	0	0				1	0	0	0		
	hy	50	bp	3	3	3	0					0		0		
Sodium borate	hy	cs			0	0	0	0		0	0	1		0	0	1
$Na_2B_4O_7$	me			3	3	3	3				3					
Sodium bromide	hy	all	20	3	3	3	P				1			0		3
NaBr	hy	all	bp	3	3	3	P				1			0		3

Beständigkeitstabelle

Resistance tables

Medium / Medium				Werkstoffe / Materials												
Bezeichnung / Designation Chemische Formel / Chemical Formula	Aggregatzustand / Aggregate state	Konzentration / Concentration	Temperatur / Temperature	Edelstahl / Stainless steel				Nickellegierungen / Nickel alloys					Reinmetalle / Pure metals			
				unlegierte/niedriglegierte Stähle / Non/low-alloy steels	Ferritischen Stähle / Ferritic steels	Austenitischen Stähle / Austenitic steels	Austenitischen + Mo-Stähle / Austenitic + Mo steels	2.4858 / Alloy 825	2.4816 / Alloy 600	2.4856 / Alloy 625	2.4610, 2.4619 / C-4, C-246	2.4360 / Alloy 400	Nickel / Nickel	Titan / Titanium	Tantal / Tantalum	Aluminium / Aluminium
		%	°C													
Sodium carbonate	hy	1	20	3	0	0	0	0	1	0	0	0	0	0	0	2
Na_2CO_3	hy	all	bp		0	0	0	0	0	0	0		0	0	0	3
	hy		400	3	3	3	3									
	me		900	3	3	3	3					0	0			
Sodium chloride	hy	0,5	20		P	P	P	0	1	0	0	0	1	0	0	
NaCl	hy	2	20		P	P	P	0	1	0	0	0	1	0	0	
	hy	cs		3	P	P	P	0	1	0	0	0	1	0	0	2
	hy	sa		3	3	3	P	0	1	0	1	0	1	0	0	3
Sodium chlorite	dr	100	20	3	P	P	0		0					0		
$NaClO_2$	hy	5	20			3	P							0		
	hy	5	bp			3	3				1			0		
	hy	10	80	3		3	P		0		1			0		
Sodium chromate	hy	all	bp	0	0	0	0	0	0	0	0	0				0
Na_2CrO_4																
Sodium cyanide	me		600	1								3				3
NaCN	hy	cs		1	0	0	0					3	0	0		3
Sodium fluoride	hy	10	20	0		0	0									0
NaF	hy	10	bp	0		0	0									
Sodium hydrogensulift																
see sodium bisulphate																
Sodium hydrogensulphate																
see sodium bisulphate																
Sodium hydroxide	solid	100	all	0	0	0	0		0	0	0	0	0			
NaOH	hy	<10	<60	0	0	0	0		0	0	0		0			
	hy	<10	<bp	3	3	0	0		0	0	0		0			
	hy	<20	<60	0	0	0	0		0	0	0		0			
	hy	<20	<bp	3	3	0	0		0	0	0		0			
	hy	<40	<60	0	0	0	0		0	0	0		0			
	hy	<40	<100	3	3	0	0		0	0	0		0			
	hy	<40	>100	3	3	3	3		0	0	0		0			
	hy	<50	<60	0	0	0	0		0	0	0		0			
	hy	<50	<100	3	3	0	0		0	0	0		0			
	hy	<50	>100	3	3	3	3		0	0	0		0			
	hy	<60	<90	3	3	0	0		0	0	0		0			
	hy	<60	<140	3	3	3	3		0	0	0		0			
	hy	<60	>140	3	3	3	3		3	0	3		0			
Sodium hypochloride	hy	5	20	3	3	3	P	0	3		0	3	3	0		3
NaOCl	hy	10	50	3		P	P		0		1			0		3
Sodium hyposulhphite		all	20		3	0	0	0	1	1	1	1	1		0	
$Na_2S_2O_4$		all	bp		3	0	0	0	1	1	1	1	1		0	
Sodium iodide						P	P	P	0	0	0	0	0			1
NaJ																
Sodium nitrate	hy	5	20	3	0	0	0	0	0	0	0	1	1	0	0	0
$NaNO_3$	hy	10	20	1	0	0	0	0	0	0	1	1	1	0	0	0
	hy	<10	bp	3	0	0	0				0		1	0	0	3
	hy	30	20	1	0	0	0	0	0	1	1	1	1	0	0	0
	hy	30	bp	1	0	0	0	0	0		3	1	1	0	0	0
	me		320	3	0	0	0				0		1	0	0	0
Sodium nitrite	hy		20			0	0	1	0	0	0	0	3	0	0	1
Na_2O_2																
Sodium perborate	hy	10	20	3	0	0	0				1			1		
$NaBO_2$	hy	10	bp	3	0	0	0				1			1		
Sodium perchlorate	hy	10	20	3	3	0	0	1			1			0		
$NaClO_4$	hy	10	bp	3		0	0	1			1			0		
Sodium peroxide	hy	10	20	3	1	0	0	1	1	1	1	0	0	3	3	3
Na_2O_2	hy	10	bp	3	3	0	0	1	1	1	1	0	1	3	3	3
	me		460					3	1		3	3	0			

Beständigkeitstabelle

Resistance tables

Medium / Medium				Werkstoffe / Materials												
Bezeichnung / Designation				Edelstahl / Stainless steel				Nickellegierungen / Nickel alloys					Reinmetalle / Pure metals			
Chemische Formel / Chemical Formula	Aggregatzustand Aggregate state	Konzentration Concentration %	Temperatur Temperature °C	unlegierte/ niedriglegierte Stähle Non/low-alloy steels	Ferritischen Stähle Ferritic steels	Austenitischen Stähle Austenitic steels	Austenitischen + Mo-Stähle Austenitic + Mo steels	2.4858 / Alloy 825	2.4816 / Alloy 600	2.4856 / Alloy 625	2.4610, 2.4619 / C-4, C-246	2.4360 / Alloy 400	Nickel Nickel	Titan Titanium	Tantal Tantalum	Aluminium Aluminium
Sodium phosphate	hy	10	20		0	0	0	0	0	0	0	0	0	0	0	0
Na_2HPO_4	hy	10	bp		0	0	0	0	0	0	0	0		0	0	1
	hy	cs			0	0	0	0	0	0	0	0	0	0	0	0
Sodium salicyate	hy	all	20		0	0	0	0			0		0	0		0
$C_6H_4(OH)COONa$																
Sodium silicofluoride	hy	cs		3	3	3	3	0	0	1	1	0				1
$Na_2(SiF_6)$																
Sodium sulphate	hy	10	20	3	0	0	0	0	0	0	0	0	0	0	0	0
Na_2SO_4	hy	cs		3	1	0	0	0	1	0	0	1	1	0	0	0
	hy	sa		3	3	0	0	0	0	0	0	0		0	0	1
Sodium sulphide	hy	1	20	3	0	0	0	0	0			1	1	0		
Na_2S	hy	cs	20	3	3	3	0	0	1	0	0		1	0	0	1
	hy	sa		3	3	3	1							0		3
Sodium sulphite	hy	10	20	3	1	0	0					0		0		0
Na_2SO_3	hy	50	bp	3	3	0	0							0		3
Sodium superoxide																
see sodium peroxide																
Sodium tetraborat																
see borax																
Sodium thiosulphate	hy	1	20	1	0	0	0					0	0	0		0
$Na_2S_2O_3$	hy	10	20	3	0	0	0							0		0
	hy	25	bp	3	P	P	P						0	0		1
		cs		3	3	0	0		1			1	1	0	0	0
Spirit of terpentine		100	20	3	0	0	0							0		0
		100	bp	3	0	0	0							0		0
Spirits			20	1	0	0	0	0	0	0	0	0				
			bp	3	0	0	0	0	0	0	0	0				
Steam																
O_2 < 1 ppm; Cl < 10 ppm			<560	1	1	1	0				0			0		
O_2 < 1 ppm; Cl < 10 ppm			<315	S	S	S	S				0		0	0		
O_2 < 15 ppm; Cl < 3 ppm			>450	S	S	S	S				0			0		
Stearic acid		100	20	1	0	0	0		0	0	0	0	0	0		0
$CH_3(CH_2)_{16}COOH$		100	95	3	0	0	0	0	1		0	1	1	0	0	3
		100	180								1			0		3
Succinic acid			bp	1	0	0	0	0	0	0	0	0				
HOOC-CH_2-COOH																
Sulphur	dr	100	60	0	0	0	0				0		0			
S	me		130	1	0	0	0		0		0	3	3	0		
	me		240	3	0	0	0				0			0		
	mo		20	3	2	1	0				0	3	3	0		
Sulphur dioxide	dr	100	20	0	0	0	0	0	0	0	0	1	0	0	0	0
SO_2	dr	100	60	3	3	1	1				0			0		0
	dr	100	400	3	3	3	0				1			0		0
	dr	100	800	3	3	3	3				3		3	0		0
	mo	100	20	3	3	3	0	0	0	0	0	0	0	0	0	3
	mo	100	60	3	3	3	0				0			0		3
	mo	100	70	3	3	3	3				0			0		3

Beständigkeitstabelle

Resistance tables

Medium / Medium				Werkstoffe / Materials												
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Bezeichnung / Designation Chemische Formel / Chemical Formula	Aggregatzustand Aggregate state	Konzentration Concentration %	Temperatur Temperature °C	unlegierte/ niedriglegierte Stähle Non/low-alloy steels	Ferritischen Stähle Ferritic steels	Austenitischen Stähle Austenitic steels	Austenitischen + Mo-Stähle Austenitic + Mo steels	2.4858 / Alloy 825	2.4816 / Alloy 600	2.4856 / Alloy 625	2.4610, 2.4619 / C-4, C-246	2.4360 / Alloy 400	Nickel Nickel	Titan Titanium	Tantal Tantalum	Aluminium Aluminium
Sulphuric acid		0,05	20	3	1	0	0							0	0	1
H_2SO_4		0,05	bp	3	1	1	0							1	0	3
		0,1	20	3	3	0	0							0	0	1
		0,2	bp	3	3	3	0							1	0	3
		0,8	bp	3	3	3	3							1	0	3
		1	20	3	3	1	0		1	0	0	1	0	0	0	1
		3	bp	3	3	3	3				1			1	0	3
		5	bp	3	3	3	3	1	3		3	1	3	3	0	3
		7,5	20	3	3	1	0							1	0	1
		10	bp	3	3	3	3	1	3		3	3	3	3	0	3
		25	20	3	3	3	3				0			3	0	1
		25	bp	3	3	3	3				3			3	0	3
		40	20	3	3	3	3				0	1		1	0	1
		40	bp	3	3	3	3				3			3	0	3
		50	20	3	3	3	3	1	3		0	3	3	3	0	3
		50	bp	3	3	3	3	3	3		3	3	3	3		3
		60	20	3	3	3	3				0	1	0	3	0	3
		80	20	3	3	1	1				0	1		3	0	3
		90	20	3	3	1	0				0			3	0	3
		96	20	1	1	1	0				0	3	1	3	0	3
Sulphurous acid	hy	1	20	3	3	0	0		1		0	3	3		0	1
H_2SO_3	hy	cs		3	3	0	0				0	3		1	0	3
	hy	sa		3	3	1	0				1				0	3
Tannic acid	hy	5	20	3	0	0	0		0			0	0	0		0
$C_{76}H_{52}O_{46}$	hy	25	100	3	3	0	0							0		
	hy	50	bp	3	3	0	0							0		
Tar			20	0	0	0	0							0		
Tartaric acid	hy	10	20	1	0	0	0	0	1	0	0	1	1	0	0	3
	hy	10	bp	3	1	0	0	0	3		1	3	3	1	0	3
	hy	25	20	3	1	0	0		0		0	0		0	0	3
	hy	25	bp	3	3	1	0		0		1	1		1	0	3
	hy	50	20	3	3	0	0				0			0	0	3
	hy	50	bp	3	3	3	3				1			3	0	3
Tetrachloroethane																
see acethylen tetrachloride																
Tetrachloroethylen	pure	100	20	0	0	0	0				0		0	0		0
$CHCl=CCl_2$	pure	100	bp			0	0				0		0	0		0
	mo		20	3	3	P	P				0		0	0		3
	mo		bp	3	3	P	P				0		0	0		3
Tin chloride		5	20	3	3	3	3	3	3		0	1	1	0	0	3
$SnCL_2$:$SnCl_4$		sa		3	3	3	3									
Toluene		100	20	0	0	0	0					0		0		0
C_6H_5-CH_3		100	bp	0	0	0	0					0		0		0
Town gas				0	0	0	0	0	0	0	0	1	1			
Trichloracetaldehyde																
see chloral																
Trichloroacetic acid																
see chloracetic acid																
Trichloroethylene	pure	100	20	0	0	0	0				0		0	0		0
$CHCl=CCl_2$	pure	100	bp			0	0				0		0	0		0
	mo		20	3	3	P	P				0		0	0		3
	mo		bp	3	3	P	P				0		0	0		3
Trichloromethane																
see chloroform																
Tricresylphosphate				0	0	0	0	0	0	0	0					
Trinitrophenol																
see picric acid																

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Urea		100	20	0	0	0	0				0	0	0	0	0	0
$CO(NH_2)_2$		100	150	3		1	0		3		1	1	1	0	0	3
Uric acid	hy		20	3	0	0	0	0	1	0	0	0		0		3
$C_5H_4O_4N_3$	hy		100	3	0	0	0	0	1	0	0	0		0		3
Vinyl chloride	dr		20	0	0	0	0				0					0
CH_2=CHCl			<400	0	0	0	0				0		0	0		
Water vapour see steam																
Wine			20	3	0	0	0		0				3		0	3
			bp	3	0	0	0		0				3		0	3
Yeast			20	1	0	0	0	0	0	0	0	0	0	0	0	0
Yellow potassium prussiate see potassium ferricyanide																
Zinc chloride	hy	5	20	3	P	P	P	0	1	0	0	1	1	0	0	3
$ZnCl_2$	hy	5	bp	3	3	3	3	0	3		1	3	1	0	0	3
	hy	10	20	3	P	P	P					3	0	0	0	0
	hy	20	20	3	P	P	P							0	0	
	hy	75	20	3	3	P	P							0	0	
Zinc sulphate	hy	2	20	3	0	0	0				0			0	0	0
$ZnSO_4$	hy	20	bp	3	0	0	0				1			0	0	3
	hy	30	bp	3	3	0	0				1			0	0	3
	hy	cs		3	0	0	0	0	1	0	1	1	1	0	0	1
	hy	sa		3	3	0	0				1			0	0	3