CHEMICAL RESISTANCE CHART

Index to Laboratory Corrosion Data Chart

	Corrosion Rate	
<.00035 inches in penetration/month	-Resistant	-Class 1
.00035-.0035 inches of penetration/month	-Partially Resistant	-Class 2
>.0035 inches of penetration/month	-Not Resistant	-Class 3

* Subject to decomposition (forming HCl) in presence of moisture
** Subject to pitting at air lime or when allowed to dry
*** Subject to attack in presence of H_2SO_4

Typical 18-8 Stainless Steels are Types 304, 304L, 321 and 347
Typical 18-8 Mo. Stainless Steels are Types 316 & 316L

Chemical	Temp °F	Stainless Steel		Mild Steel	Brass (80-20)	Bronze (Phos.)	Monel
		18-8	18-8 Mo.				
Acetic Acid 5%-20% Agitated or Aerated	70°	1	1	3	3	3	2
50%	70°	1	1	3	3	3	3
50%-80%	Boiling	3	2	3	3	3	3
80%	70°	1	1	3	3	3	1
100%	70°	1	1	3	3	3	1
100%	Boiling	3	2	3	3	3	2
100%-150 lbs. pressure	400°	3	3	3	3	3	2
Acetic Anhydride	70°	1	1	3	3	3	2
	Boiling	1	1	3	3	3	2
Acetic Acid Vapors, 30%	Hot	3	2	3	3	3	3
100%	Hot	3	3	3	3	3	2
Acetone	Boiling	1	1	3	1	1	1
Acetyl Chloride	Cold	2	2	3	2	2	1
	Boiling	2	2	3	2	2	3
Acetylene Concentrated	70°	1	1	1	3	3	1
Commercially Pure	70°	1	1	1	3	3	1
Acid Salt Mixture (10% H_2SO_4 Sp. G. 1.07 + 10% $CuSO_4$ ● 5 H_2O)	Boiling	1	1	3	3	3	3
Acid Salt Mixture (10% H_2SO_4 Sp. G. 1.07 + 2% $FeSO_4$ ● 7 H_2O)	Boiling	1	1	3	3	3	3
Alcohol, Ethyl, 70° & Boiling	70°	1	1	1	1	1	1
Alcohol, Methyl	70°	1	1	1	1	1	1
	(150°) Boiling	3**	2	3	1	1	1
Aluminum, Molten	1400°	3	3	3	3	3	3
Aluminum Acetate, Saturated	70° & Boiling	1	1	3	3	3	1
Aluminum Chloride							
10% Quiescent	70°	3	3	3	3	3	2
25% Quiescent	70°	1	1	3	3	3	2
Aluminum Fluoride	70°	3	3	3	3	3	2
Aluminum Hydroxide, Saturated	70°	1**	1	1**	1	1	1
Aluminum Sulphate, 5%	150°	1**	1	3	3	3	1
10%	70°	1**	1	3	3	3	1
10%	Boiling	2**	1	3	3	3	1
Saturated	70°	1**	1	3	3	3	1
Saturated	Boiling	2**	1	3	3	3	1
Aluminum Potassium Sulphate							
(Alum) 2%-10%	70°	1	1	3	2	2	2
10%	Boiling	2	1	3	3	3	2
Saturated	Boiling	3	2	3	3	3	2
Ammonia (Anhydrous)							
All Concentrations	70°	1	1	1	1	1	1
Gas	Hot	3	3	3	3	3	
Ammonia Liquor	70°	1	1	3	3	3	3
	Boiling	1	1	3	3	3	3
Ammonium Bicarbonate	70°	1	1	3	3	3	2
	Hot	1	1	3	3	3	2
Ammonium Bromide	70°	2	1	3	3	3	2
Ammonium Carbonate 1 & 5%	70°	1	1	1	3	3	3
Ammonium Chloride 1%	70°	1	1	2	3	3	1
10%	Boiling	1**	1**		3	3	2
28%	Boiling	2**	1**		3	3	2
50%	Boiling	2**	1**		3	3	2
Ammonium Hydroxide All Concentrations	70°	1	1	2	3	3	3

Chemical	Temp °F	Stainless Steel		Mild Steel	Brass (80-20)	Bronze (Phos.)	Monel
		18-8	18-8 Mo.				
Ammonium Monophosphate	70°	1	1	2	3	3	2
Ammonium Nitrate							
All Concentrate Agitated	70°	1	1	3	3	3	2
All Concentrate Aerated	70°	1	1	3	3	3	2
All Concentrate Saturated	Boiling	1	1	3	3	3	2
Ammonium Oxalate 5%	70°	1	1	2	3	3	-
Ammonium Perchlorate 10%	Boiling	1	1	2	3	3	-
Ammonium Persulphate 5%	70°	1	1		3	3	3
Ammonium Phosphate 5%	70°	1	1	2	3	3	3
Ammonium Sulphate							
1% Aerated or Agitated	70°	1	1	3	3	3	2
Ammonium Sulphate							
5% Aerated & Agitated	70°	1	1	3	3	3	2
10% & Saturated	Boiling	2**	1**	3	3	3	2
Ammonium Sulphite, 70° & Boiling	70°	1	1	3	3	3	3
Amyl Acetate Concentrate	70°	1	1	2	1	1	1
Amyl Chloride	70°	1	1	3	2	2	2
Aniline							
3%	70°	1	1	2	3	3	2
Concentrated Crude	70°	1	1	1	3	3	2
Aniline Hydrochloride	70°	3	3		3	3	3
Antimony Trichloride	70°	3	3	3	3	3	3
Barium Carbonate	70°	1	1	2	1	1	2
Barium Chloride							
5% & Saturated	70°	1	1	3	2	2	2
Barium Hydroxide							
Aqueous Solution	Hot	1	1	2	1	1	2
Barium Nitrate							
Aqueous Solution	Hot	1	1	2			-
Barium Sulphate							
(Barytes-Blanc Fixe)	70°	1	1		1	1	2
Barium Sulfide							
Saturated Solution	70°	1	1	3	3	3	-
Beer (Barley Malt & Hops)	70°	1	1	3	1	1	1
3.5%-4.5% Alcohol	160°	1	1	3	1	1	1
Benzene (Benzol) 70° or Hot	70°	1	1	2	1	1	2
Benzoic Acid	70°	1	1	1	1	1	-
Blood (Meat Juices)	Cold	1**	1	3			2
Borax 5%	Hot	1	1	2	1	1	2
Boracic Acid 5%	Hot or Cold	1	1				
Boric Acid							
5% Solution, 70° or Hot	70°	1	1	3	1	1	2
5% Solution	Boiling	1	1**	3	2	1	2
Saturated Solution	70°	1**	1**	3	3	2	2
Saturated Solution	Boiling	1**	1**	3	3	3	2
Bromine, Bromine Water	70°	3	3	3	3	3	3
Buttermilk	70°	1	1	3	3	3	2
Butyl Acetate		1	1	2			2
Bultyric Acid 5%	70°-	1	1	3	2	2	2
Aqueous Soln. Sp. G. .964	Boiling	1	1	3	3	3	2
Calcium Carbonate	70°	1	1	1			1
Calcuim Chlorate Dilute Solution	70° or Hot	1	1	2			2
Calcium Chloride Dilute or Concen. Solution	70°	2**	1**	3	2	2	3
Calcium Chorohypochlorite							
(Bleaching Powder) 1%	70°	3	3	3	2	2	3
(Bleaching Powder) 5%	70°	3	3	3	2	2	3

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Chemical	Temp °F	Stainless Steel		Mild Steel	Brass (80-20)	Bronze (Phos.)	Monel
		18-8	18-8 Mo.				
Calcium Hypochlorite 2%	70°	2**	1**	3	2	2	3
Calcium Hydroxide, 10-20%	Boiling	1	1	3	1	1	1
Calcium Sulphate, Saturated	70°	1	1	3	1	1	2
Carbonic Acid Saturated Soln.	70°	1	1	3	3	1	3
Carbolic Acid C.P.	70° or Boiling	1	1	3	2	2	1
Carbonated Water		1	1	3	2	2	3
Carbon Bisulfide	70°	1	1	2	1	2	2
Carbon Monoxide Gas	1400° 1600°	1	1	1	3	3	1
Carbon Tetrachloride							
C.P.	70°	1	1	2	1	1	1
Dry C.P.	Boiling	1	1	2	1	1	2
Commerical + 1% Water		3**	3	3	2	2	2
Carnallite-Cold Saturated Soln. ($KCl \cdot MgCl_2 \cdot 6 H_2O$)	Boiling	3	1**				
Cellulose		1	1				1
Chloracetic Acid	70°	3	3	3	2	2	2
Chlorbenzol Conc. Pure Dry	70°	1	1	2	2	2	2
Chloric Acid	70°	3	3	3	3	3	3
Chlorine Gas (Dry)	70°	3	2	2	1	1	2
(Moist)	70°	3	3	3	3	3	3
Chlorinated Water, Saturated		3**	2**	3			2
Chloroform	70°	1	1	1	1	1	1
Chromic Acid							
5% C.P.	70°	1	1	3	3	3	3
10%	70°	3	2	3	3	3	3
Chromic Acid							
10% C.P.	Boiling	3	2	3	3	3	3
50% C.P.	70°	3	2	3	3	3	3
50% C.P.	Boiling	3	3	3	3	3	3
Commerical 50% (Cont. SO_3)	70°	3	3	3	3	3	3
Commerical 50% (Cont. SO_3)	Boiling	3	3	3	3	3	3
Chromium Plating Bath	70°	1	1	2			3
Cider	70°	1	1	3	1	1	1
Citric Acid, 5% Still	70°-150°	1	1	3	2	1	2
15% Still	70°	1	1	3	3	2	2
15% or Concentrated	Boiling	2	1	3	3	2	3
Coca-Cola Syrup (Pure)	70°	1	1	3			2
Coffee	Boiling	1	1	3	1	1	1
Copper Acetate (Sat Sol)	70°	1	1	3			2
Copper Carbonate (Sat. Sol.) in 50% NH_4OH		1	1		3	3	-
Copper Chloride, 1% Agitated	70°	2**	1**	3	3	3	3
1% Agitated	158°	3	3	3	3	3	3
1% Aerated	70°	2**	1**	3	3	3	3
5% Agitated	70°	3**	2**	3	3	3	3
5% Aerated	70°	3**	3**	3	3	3	3
Cooper Cyanide (Sat. Sol.)	Boiling	1	1		3	3	2
Cooper Nitrate							
1% Still, Agitated & Aerated	70°	1	1	3	3	3	3
5% Still, Agitated or Aerated	70°	1	1	3	3	3	3
50% Aqueous Solution	Hot	1	1	3	3	3	3
Copper Sulphate							
5% Agitated Still or Aerated	70°	1	1	3	2	2	3
Saturated Solution	Boiling	1	1	3	2	2	3
Cresosote (Coal Tar)	Hot	1	1	2	1	1	2
Cresosote Oil	Hot	1	1	2	2	2	2
Cyanogen Gas	70°	1	1				-
Dichloroethane (Dry)	Boiling	1	1	3	3	3	2
Dimtrochlorobenzene Melted & Solidified	70°	1	1	3			-
Distillery Wort	70°	1	1				-
Developing Solutions	70°	1	1				-

Chemical	Temp °F	Stainless Steel		Mild Steel	Brass (80-20)	Bronze (Phos.)	Monel
		18-8	18-8 Mo.				
Dyewood Liquor	70°	1**	1	3			2
Epsom Salt (Magnesium Sulfate)	Hot & Cold	1	1	3	1	1	2
Ethers	70°	1	1	2	1	1	2
Ethyl Acetate (Conc. Sol.)	70°	1	1	2	1	1	2
Ethyl Chloride	70°	1	1	2	2	2	1
Ethylene Chloride	70°	1	1	2	2	2	1
Ethylene Glycol	70°	1	1	2	1	1	1
Ferric Chloride							
1% Solution Still	70°	2**	1**	3	3	3	3
1% Solution	Boiling	3	3	3	3	3	3
5% Solution, Agitated, Aerated	70°	3	3	3	3	3	3
Ferric Hydroxide (Hydrated Iron Oxide)	70°	1	1	3			2
Ferric Nitrate							
1% - 5% Quiescent or Agitated	70°	1	1	3	3	3	3
1% - 5% Aerated	70°	1	1	3	3	3	3
Ferric Sulphate							
1% - 5% Quiescent or Agitated	70°	1**	1	3	3	3	3
1% - 5% Agitated	70°	1**	1	3	3	3	3
10%	Boiling	1**	1	3	3	3	3
Ferrous Chloride Saturated Solution	70°	3	1	3	2	2	-
Ferrous Sulphate Dilute Solution	70°	1	1	3	2	2	3
Fluorine (Gas) Moist	70°	3	3	3	3	3	3
Formaldehyde 40% Solution		1**	1**	2	1	1	1
Formic Acid, 5% Still	70°	2	1	3	2	2	2
5% Still	150	2	1	3	2	2	3
Fruit Juices	70°	1	1	3	2	2	2
Fuel Oil	Hot	1	1	2	1	1	2
Containing Sulphuric Acid		3	2		3	3	2
Furfural	70°	1	1	2	1	1	2
Gallic Acid, 5%	70°-150°	1	1	3			2
Saturated	212°	1	1	3			2
Gasoline	70°	1	1	2	1	1	1
Gelatin		1	1	3	1	1	1
Glue Dry	70°	1	1	1	2	2	2
Solution-Acid	70°-140°	2**	1	2	3	3	2
Glycerine	70°	1	1	2	1	1	1
Hydrochloric Acid All Concentrations	70°	3	3	3	3	3	3
Hydrocyanic Acid	70°	1	1	3	3	3	2
Hydrofluoric Acid	70°	3	3	3	3	3	1
Hydrofluosilicic Acid	70°	3	3	3	2	2	2
Hydrogen Peroxide	70°	1***	1	3	3	3	2
	Boiling	2***	1	3	3	3	2
Hydrogen Sulphide(Dry)	70°	1	1	2	1	1	3
(Wet)	70°	2***	1***	3	3	3	3
Hyposulphite Soda (Hypo)		1	1				-
Ink	70°	2***	1	3	3	3	1
Iodine	70°	3	3	3	3	3	3
Iodoform	70°	1	1	3			2
Kerosene	70°	1	1	2	1	1	2
Ketchup Ouiescent	70°-150°	1**	1	3			2

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Chemical	Temp °F	Stainless Steel		Mild Steel	Brass (80-20)	Bronze (Phos.)	Monel
		18-8	18-8 Mo.				
Lactic Acid, 1%	70°	1	1	3	2	2	2
1%	Boiling	1	1	3	3	3	2
5%	70°	1	1	3	2	2	2
5%	150°						
	Boiling	2	1	3	3	3	2
10%	70°	2	1	3	2	2	2
10%	150						
	Boiling	3	2	3	3	3	2
Concentrated	70°	2	1	3	2	2	2
Concentrated	Boiling	3	2	3	3	3	2
Lard	70°	1	1				1
Lead (Molten)	750°	2	2		3	3	3
Lead Acetate 5%	Boiling	1	1	3			2
Linseed Oil	70°	1	1	2	2	2	1
Plus 3% H2SO4	390°	2	1	3	3	3	1
Magnesium Chloride							
1% Quiescent	70°	1**	1	3	2	2	1
1% Quiescent	Hot	3	2**	3	2	2	1
5% Quiescent	70°	1**	1	3	2	2	1
5% Quiescent	Hot	3	2**	3	2	2	1
Magnesium Oxychloride	70°	3	2**	3			-
Magnesium Sulphate	Hot & Cold	1	1	3	1	1	1
Malic Acid	Hot & Cold	2	1	3			2
Mash	Hot	1	1				2
Mayonnaise	70°	1**	1	3			2
Mercury		1	1	1	3	3	3
Mercuric Chloride Dilute Sol.	70°	3	3	3	3	3	3
Methanol (Methyl Alcohol)		1	1	2	1	1	1
Milk, Fresh or Sour	70°	1	1	3	1	1	2
	Boiling	1	1	3	1	1	2
Mixed Acids							
53% H2SO4 + 45% HNO3	Cold	1	1	3	3	3	3
Molasses		1	1	2	2	1	1
Muriatic Acid	70°	3	3	3	3	3	2
Mustard	70°	1**	1**	3			2
Naphtha, Crude	70°	1	1	2	2	2	1
Naphtha, Pure	70°	1	1	2	2	2	1
Naphthalene Sulfonic Acid	70°	1	1	3			1
Nickel Chloride Solution	70°	1**	1**	3	3	2	2
Nitrating Solutions	Cold & Hot	2	2		3	2	3
Nickel Sulphate	Cold &	1	1	3	3	1	1
Niter Cake	Fused	2	1	3			2
Nitric Acid							
5%-50%-70%	Boiling	1	1	3	3	3	3
65%	70°	1	1	3	3	3	3
65%	Boiling	2	2	3	3	3	3
Concentrated	70°	1	1	3	3	3	3
Concentrated	Boiling	3	3	3	3	3	3
Fuming Concentrated	70°-110°	1	1	3	3	3	3
Fuming Concentrated	Boiling	3	3	3	3	3	3
Nitrous Acid	70°	1	1	3	3	3	3
Oils, Crude	Cold & Hot	1***	1***		2	2	1
Oils, Vegetable, Mineral	Cold & Hot	1***	1		2	2	1
Oleic Acid	70°-400°	1**	1	2	2	2	2
Oxalic Acid							
5%-10%	70° & Boiling	1	1	3	3	2	2
10%	Boiling	3	3	3	3	2	2
25%-50%	Boiling	3	3	3	3	2	1
Paraffine	Cold & Hot	1	1	2	1	1	1
Phenol (See Carbolic Acid)							
Petroleum Ether		1	1	2			2

Chemical	Temp °F	Stainless Steel		Mild Steel	Brass (80-20)	Bronze (Phos.)	Monel
		18-8	18-8 Mo.				
Phosphoric Acid							
1%	70°	1*	1*	3	3	3	2
1%	Boiling	1	1	3	3	3	2
1%-45lbs. Pressure	284°	1	1	3	3	3	2
5% Quiescent, or Agitated	70°	1	1	3	3	3	2
5% Aerated	70°	1	1	3	3	3	2
10% Quiescent	70°	3	1	3	3	3	2
10% Agitated or Aerated	70°	3	2	3	3	3	2
10%-50%	Boiling	1	1	3	3	3	3
80%	70°	3	3	3	3	3	2
80%	230°	3	3	3	3	3	3
85%	Boiling	3	3	3	3	3	3
Picric Acid	70°	1	1	3	3	3	3
Potassium Bichromate, 25%	70°	1	1		3	3	2
25%	Boiling	1	1		3	3	2
Potassium Bromide	70°	2**	1**	3	2	2	2
Postassium Cabornate 1%	70°	1	1	2	2	2	1
Potassium Carbonate	Hot	1	1	2	3	3	1
Postassium Chlorate Sat. at 212°	Boiling	1	1	2	3	3	3
Potassium Chloride							
1% Quiescent	70°	1**	1**	3	3	2	1
1% Agitated or Aerated	70°	1	1	3	3	2	1
5% Quiescent	70°	1**	1**	3	3	2	1
5% Agitated or Aerated	70°	1	1	3	3	2	1
5%	Boiling	1	1	3	3	2	1
Potassium Chromium Sulfate							
5%	70°	1**	1	3	3	2	-
Sp. G. 1.6	Boiling	3	3	3	3	3	-
Potassium Cyanide	70°	1	1	2	3	3	2
Potassium Ferricyanide, 5%-25%	70°	1	1	3			2
25%	Boiling	1	1	3			2
Postassium Ferrocyanide, 5%	70°	1	1	3			2
Potassium Hydroxide, 5%	70°	1	1	2†	3	2	1
27%	Boiling	1	1	2†	3	2	1
50%	Boiling	2	1	3	3	2	1
Potassium Hypochlorite	70°	2	2	3	3	3	3
Potassium Nitrate							
1%-5% Still or Agitated	70°	1	1	3	2	2	1
1%-5% Aerated	70°	1	1	3	2	2	1
50%	70°	1	1	3	2	2	1
50%	Boiling	1	1	3			1
Molten	1022°	1	1	3			-
Potassium Oxalate		1	1				-
Potassium Permanganate, 5%	70°	1	1	2			3
Potassium Sulphate							
1%-5% Still or Agitated	70°	1	1	2	2	1	2
1%-5% Aerated	70°	1	1	2	2	1	2
	Hot	1	1	3	2	1	2
Potassium Sulphide (Salt)		1	1	3			-
Pyrogalic Acid		1	1	2			-
Quinine Bisulphate (Dry)		2	1	3			-
Quinine Sulphate (Dry)		1	1	3	2	2	2
Rosin	Molten	1	1	3	1	1	1
Sea Water	70°	1**	1**	3	2	2	1
Sewage		1***	1***		1	1	1
Silver Bromide		2**	1**	3	3	3	-
Silver Chloride		3	3	3	3	3	3
Silver Nitrate		1	1	3	3	3	3
Soap	70°	1	1	2	1	1	1
Sodium Acetate (Moist)		1**	1	3			2
Sodium Bicarbonate							
All Concentrations	70°	1	1	3	2	2	1
5% Still	150°	1	1	3	2	2	1
Sodium Bisulphates Solution	70°	1***	1***	3	3	2	2
Saturated Solution	70°	3	3	3	3	2	2
2g. + 1g. H2SO4 liter	68°	3	1***	3	3	2	2

† Mild steel severely stressed subject to caustic embrittlement.

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		18-8	18-8 Mo.				
Sodium Carbonate, 5%	70°-150°	1	1	2	2	2	1
5%-50%	Boiling	1	1	2	2	2	1
Molten	1650°	3	3	3	3	3	1
Sodium Chloride, 5% Still	70°-150°	1**	1	3	3	2	1
20% Aerated	70°	1**	1	3	3	2	1
Saturated	70°	1**	1	3	3	2	1
Saturated	Boiling	2**	1	3	3	2	1
Sodium Cyanide	70°	1	1	2	3	3	-
Sodium Fluoride, 5% Solution	70°	2**	1**	3	1	1	1
Sodium Hydroxide	70°	1	1	2	3	2	1
Sodium Hypochlorite, 5% Still		2**	1**	3	3	2	3
Sodium Hyposulfite	70°	1***	1	3			1
Sodium Nitrate	Fused	1	1	2	1	1	2
Sodium, Perchlorate,10%	70°	1	1				-
	Boiling	1	1				-
Sodium Phosphate	70°	1	1	2	2	2	2
Sodium Sulphate, 5% Still	70°	1	1	3	1	1	1
All Concentrations	70°	1	1	3	1	1	1
Sodium Sulphide, Saturated		2**	1	3	3	3	2
Sodium Sulphite, 5%	70°	1	1	3	3	2	2
10%	150°	1	1	3	3	2	2
Sodium Thiosulphate							
Saturated Solution	70°	1	1***	3	3	3	1
Acid Fixing Bath (Hypo)	70°	1	1	3	3	3	2
25% Solution	70° & Boiling	1	1***	3	3	3	2
Stannic Chloride Solution							
Sp. G. 1.21	70° & Boiling	3	3	3	3	3	3
Stannous Chloride, Saturated		3	1	3			3
Steam		1	1	3	2	1	1
Stearic Acid	70°	1	1	3	3	2	2
Starch, Aqueous Solution		1	1				2
Strontium Hydroxide		1	1				-
Strontium Nitrate Solution	Hot	1	1	3			2
Sulphur, Moist	70°	2**	1**	3	3	3	2
Molten	266°	1	1	3	3	3	1
Molten	833°	3	3	3	3	3	3
Sulphur Chloride (Dry)		3	3	3	1	1	2
Sulphur Dioxide Gas (Moist)	70°	2	1	3	2	2	3
Gas (Dry)	575°	1	1	3	1	1	2

Chemical	Temp °F	Stainless Steel		Mild Steel	Brass (80-20)	Bronze (Phos.)	Monel
		18-8	18-8 Mo.				
Sulphuric Acid							
5%-10%	70°	3	2	3	3	2	3
5%-10%	Boiling	3	3	3	3	3	3
50%	70°	3	3	3	3	3	3
50%	Boiling	3	3	3	3	3	3
Concentrated	70°	1	1	3	3	2	3
Concentrated	Boiling	3	3	3	3	2	3
Concentrated	300	3	3	3	3	2	3
Fuming	70°	3	2	3	3	2	3
Sulphurous Acid, Saturated	70°	3	2	3	3	2	3
Saturated-60 lb. Pressure	250°	3	2	3	3	2	3
Saturated - 70-125lb. Pressure	310°	3	2	3	3	2	3
150 lbs. Pressure	375°	3	2	3	3	2	3
Sulphurous Spray	70°	3	3	3	3	3	3
Tannic Acid	70°	1	1	3	2	1	3
	150°	1	1		2	1	3
Tanning Liquor	70°	1	1				1
Tar		1	1	2	1	1	2
Tartaric Acid,10%	70°	1	1	3	2	1	2
10%-50%	Boiling	2	1	3	2	1	2
Tin	Molten	3	3	3	3	3	-
Trichloracetic Acid	70°	3	3	3	3	2	3
Trichlorethylene (Dry)	70°	1**	1	3	1	1	1
(Moist)					2	2	-
Varnish	70°	1	1	2	1	1	1
Vegetable Juices		1	1	2	3	2	2
Vinegar Fumes		2	1	3	3	2	3
Vinegar, Still, Agitated or Aerated	70°	1	1	3	3	2	3
Water		1	1	2	1	1	1
Whiskey		1	1	3	2	1	1
Wine-All Phases of Processing and Storing	75°	1	1	3	3	3	2
Yeast		1	1		3	3	1
Zinc	Molten	3	3	3	3	3	3
Zinc Chloride, 5% Still	70°	1**	1**	3	3	3	2
	Boiling	2**	2**	3	3	3	2
Zinc Cyanide, Moist	70°	1	1	3			-
Zinc Nitrate, Solution	Hot	1	1	3			-
Zinc Sulphate, 5%	70°	1	1	3	3	2	2
25%	Boiling	1	1	3	3	2	2
Saturated	70°	1	1	3	3	2	2