Screen Services Chemical Resistances

The following chart of chemical resistance data is based upon laboratory testing, and field results may vary. Actual temperature, pressure, concentrations, aeration, and chemical impurities of the corrosive media can significantly influence corrosion rates. Galvanic action, stray currents, and the surface condition affect chemical resistance of the alloys.

Substance	Condition Temp. C	Type 304	Type 316	Type 410	Type 430	Hastelloy B	Hastelloy C	Nickel	Monel	Carpenter 20
Acetic acid .....5% & 10%	21°	A	A	A	A	A	A	A	A	A
..... 20%	21°	A	A	C	A	A	A	A	A	A
..... 50%	21°	A	A	--	--	A	A	B	A	A
..... 50%	Boiling	C	B	--	--	A	A	B	A	A
..... 80%	21°	A	A	--	--	A	A	B	A	A
..... 80%	Boiling	D	B	--	--	A	A	B	A	A
..... 100%	21°	A	A	--	A	A	A	A	A	A
..... 100%	Boiling	C	B	--	A	B	A	C	B	B
..... 100% @ 1030 kPa	204°	E	C	--	--	--	--	--	--	--
Acetic anhydride	21°	A	A	--	E	A	A	A	A	A
.....	Boiling	A	A	--	--	B	A	A	A	A
Acetic vapours 30%	Hot	C	B	--	--	A	A	--	--	A
..... 100%	Hot	E	C	--	--	A	A	C	B	A
Acetone	21°	A	A	--	B	A	A	A	A	A
.....	Boiling	A	A	--	--	A	A	A	A	A
Alcohol ethyl	21° & boiling	A	A	--	A	A	A	A	A	A
Alcohol methyl	21°	A	A	--	A	A	A	A	A	A
.....	150°	C[1]	B	--	C	A	A	A	A	A
Aluminium acetate ..... saturated		A	A	--	--	B	B	--	--	B
Aluminium chloride	21°	D	C	--	D	A	E	B	B	C
Aluminium (chrome)..... 5%	21°	A	A	--	--	--	--	C	C	A
Aluminium fluoride	21°	D	C	--	D	--	C	A	A	C
Alum. hydroxide ..... saturated		A	A	--	A	--	--	A	A	A
Aluminium	Molten	E	E	--	E	--	--	E	E	E
Alum. potassium sulphate 2%	21°	A	A	--	A	--	B	A	A	A
..... 10%	21°	A	A	--	B	--	B	A	A	A
.....	Boiling	B	A	--	C	--	--	B	A	A
..... saturated	Boiling	C	B	--	D	--	--	C	B	A
Aluminium sulphate 10%	21°	A	A	--	D	--	A	A	A	A
.....	Boiling	B	A	--	E	--	B	B	A	A
..... saturated	21°	A	A	--	D	A	A	A	A	A
.....	Boiling	B	A	--	E	A	A	B	A	A
Ammonia..... all concentrations	21°	A	A	--	A	B	A	--	--	A
.....gas	Hot	D	--	--	D	--	B	--	--	A

[1] Subject to pitting at air line or when allowed to dry

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Screen Services Chemical Resistances

Substance	Condition Temp. C	Type 304	Type 316	Type 410	Type 430	Hastelloy B	Hastelloy C	Nickel	Monel	Carpenter 20
Ammonia liquor	21°	A	A	--	A	--	--	C	C	--
	Boiling	A	A	--	--	--	--	C	C	--
Ammonium bicarbonate	21°	A	A	--	--	--	--	A	A	A
	Hot	A	A	--	--	--	--	A	A	A
Ammonium carbonate 1% & 5%	21°	A	A	A	A	B	B	A	A	A
Ammonium chloride 1%	21°	A	A	A	A	A	A	A	A	A
10%	Boiling	A[1]	A[1]	--	A	B	B	A	A	A
28%	Boiling	B[1]	A[1]	--	--	B	B	A	A	A
50%	Boiling	B[1]	A[1]	--	--	--	A	A	A	B
Ammonium nitrate all concentrations agitated/aerated	21°	A	A	A	A	E	A	C	C	A
saturated	Boiling	A	A	A	A	E	A	E	E	A
Ammonium oxalate 5%	21°	A	A	--	A	--	A	A	A	A
Ammonium persulphate 5%	21°	A	A	--	A	--	A	E	E	A
Ammonium phosphate 5%	21°	A	A	--	A	--	A	A	A	A
Ammonium sulphate 1% & 5% agitated	21°	A	A	B	A	--	B	A	A	A
aerated	21°	A	A	B	A	--	--	A	A	A
10%	Boiling	B[1]	A[1]	--	--	--	B	B	A	A
saturated	Boiling	B[1]	A[1]	--	--	--	--	B	A	A
Ammonium sulpite	Cold	A	A	--	--	--	A	C	B	A
	Boiling	A	A	--	--	--	--	E	C	A
Aniline 3%	21°	A	A	--	A	--	B	A	A	A
concentrated crude	21°	A	A	--	A	--	A	A	A	A
Aniline hydrochloride	21°	E	D	--	E	--	--	B	B	C
Antimony trichloride	21°	E	D	--	E	--	E	A	A	--
Barium carbonate	21°	A	A	--	A	--	--	A	A	A
Barium chloride 5%	21°	A	A	--	A	B	A	A	A	B
saturated	21°	A	A	--	A	A	A	A	A	B
aqueous	Hot	B[1]	A[1]	--	--	B	A	A	A	B
Barium nitrate aqueous	Hot	A	A	--	--	--	--	C	C	A
Barium sulphate	21°	A	A	--	A	--	--	A	A	A
Beer		A	A	--	--	--	--	--	--	--
Benzene	21°	A	A	--	A	B	B	A	A	A
Benzoic acid	21°	A	A	--	A	--	A	A	A	A
Benzol	Hot	A	A	--	A	--	--	A	A	A
Blood (meat juices)	Cold	A[1]	A	--	A	--	--	--	--	--
Boracic acid 5%		A	A	--	A	--	-	A	A	A
Borax 5%	Hot	A	A	A	A	--	--	A	A	A

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Substance	Condition Temp. C	Type 304	Type 316	Type 410	Type 430	Hastelloy B	Hastelloy C	Nickel	Monel	Carpenter 20
Bromine / bromine water	21°	E	D	--	E	--	--	D	D	E
Buttermilk	21°	A	A	B	A	--	--	--	--	--
Butyric acid 5%	21°	A	A	A	A	B	A	A	A	A
..... 5%	65°	A	A	--	A	B	A	A	A	A
.....aqueous sol. SG 0.964	Boiling	A	A	--	A	B	A	--	--	A
Calcium carbonate	21°	A	A	--	A	--	--	A	A	A
Calcium chlorate .....dilute	21°	A	A	--	--	--	B	A	A	A
.....dilute	21°	A	A	--	--	--	B	A	A	A
Calcium chloride .....dilute	21°	B[2]	A[1]	--	C	A	A	A	A	A
.....concentrated	21°	B[2]	A[1]	--	C	B	A	A	A	B
Calcium hydroxide 10%	Boiling	A	A	--	--	--	A	A	A	A
..... 20%	Boiling	A	A	--	--	--	A	A	A	A
..... 50%	Boiling	C	B	--	--	--	A	A	A	A
Calcium hypochlorite 2%	21°	B[1]	A[1]	--	B[1]	--	B	C	C	B
Calcium sulphate ..... saturated	21°	A	A	--	A	B	B	A	A	B
Carbolic acid ..... C.P.	Boiling	A	A	--	--	--	--	A	A	A
..... crude	Boiling	A	A	--	--	--	--	A	A	A
..... C.P.	21°	A	A	--	A	--	--	A	A	A
Carbonated water		A	A	--	A	--	--	A	A	A
Carbon bisulphide	21°	A	A	--	A	--	--	A	A	A
Carbon monoxide	871°	A	A	--	A	A	--	--	--	A
.....	760°	A	A	A	A	--	A	--	--	A
Carbon tetrachloride ..... pure	21°	A	A	A	A	B	A	A	A	A
aqueous solution 5%-10%	21°	C[1]	--	D	C[1]	B	A	A	A	A
Chlorbenzol..... pure	21°	A	A	--	A	--	--	A	A	A
Chloric acid	21°	E	D	--	E	E	A	D	D	--
Chlorinated water..... saturated	21°	C[1]	B[1]	--	D[1]	--	A	C	C	A
Chlorine gas..... dry	21°	C	B	--	C	--	A	A	A	A
.....moist	21°	D	C	--	D	--	A	C	C	C
.....	98°	E	D	--	E	--	B	A	A	E
Chloroacetic acid	21°	D	C	E	E	A	A	A	A	C
Chloroform	21°	A	A	--	A	B	B	A	A	B
Chromic acid..... 5%	21°	A	A	--	B	A	A	A	A	B
..... 10% C.P.	Boiling	C	B	--	D	B	A	C	B	B
Chromic acid..... .....50% com. (cont. SO_3)	Boiling	D[1]	C	--	D	--	--	--	--	B
Chromium plating bath.....	21°	A	A	--	--	--	--	C	C	B
Cider	21°	A	A	--	A	--	--	--	--	--

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[2] Keep solutions alkaline

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Screen Services Chemical Resistances

Substance	Condition Temp. C	Type 304	Type 316	Type 410	Type 430	Hastelloy B	Hastelloy C	Nickel	Monel	Carpenter 20
Citric acid ..... 5% still	21° & 65°	A	A	A	A	A	A	A	A	A
..... 15% still	21°	A	A	--	--	A	A	A	A	A
Citric acid 15%	Boiling	B	A	--	A	A	A	B	A	A
.....concentrated	Boiling	C	B	--	--	A	A	B	A	A
Coca-Cola syrup ..... pure	21°	A	A	--	A	--	--	--	--	--
Coffee	Boiling	A	A	--	A	--	--	--	--	--
Copper acetate ..... saturated	21°	A	A	--	A	--	--	C	C	--
Copper carbonate ..... saturated .... solution in 50% NH_4OH		A	A	--	A	--	--	C	C	--
Copper chloride ..... 1% agitated	21°	B[1]	A[1]	B[1]	B[1]	--	--	B	B	B
..... 1% aerated	21°	B[1]	A[1]	B[1]	B[1]	--	--	B	B	B
..... 5% agitated	21°	C[1]	B[1]	B[1]	B[1]	--	--	C	C	B
..... 5% aerated	21°	E[1]	D[1]	E[1]	E[1]	--	--	D	D	B
Copper cyanide..... saturated	Boiling	A	A	--	A	B	A	B	B	A
Copper nitrate .....1% & 5%	21°	A	A	A	A	--	--	C	C	A
..... 50% aqueous	21°	A	A	--	--	--	--	E	E	A
Copper sulphate 5%	21°	A	A	A	A	--	A	B	B	A
..... saturated	Boiling	A	A	--	--	--	A	C	C	A
Creosote (coal tar).....	Hot	A	A	--	--	--	--	A	A	A
Creosote oil.....	Hot	A	A	--	--	B	A	A	A	A
Cyanogen gas.....	21°	A	A	--	--	--	--	A	A	A
Developing solutions.....	21°	A	A	--	A	--	--	--	--	--
Dinitrochlorobenzol ....melted/solidified	21°	A	A	--	A	--	--	--	--	--
Dyewood liquor	21°	A[3]	A	--	--	--	--	--	--	--
Epsom salt.....	Cold & hot	A	A	--	A	--	--	--	--	--
Ether	21°	A	A	--	A	--	B	A	A	A
Ethyl chloride	21°	A	A	--	A	B	B	A	A	A
Ethylene chloride	21°	A	A	--	--	A	B	A	A	A
Ferric chloride ..... 1% still	21°	B[1,4]	A[1]	C[1]	B[1]	E	A	B	C	C
.....	Boiling	D[1,4]	C[1]	--	D[1]	E	C	E	E	C
.....5% still	21°	D[1,4]	C[1]	D[1]	D[1]	E	A	D	D	C
Ferric chloride ..... 5% agitated	21°	C[1,4]	C[1]	C[1]	C[1]	--	--	D	D	C
..... 5% aerated	21°	C[1,4]	C[1]	D[1]	D[1]	--	--	D	D	C
Ferric hydroxide	21°	A	A	--	--	--	--	A	A	B
Ferric nitrate.....1% & 5%	21°	A	A	A	A	--	A	D	D	A
Ferric sulphate .....1% & 5%	21°	A[1]	A	A	A	--	A	C	C	A
Ferrous sulphate.....dilute	21°	A	A	--	A	C	B	A	A	A

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[3] May attack when sulphuric acid is present
[4] May attack when hydrochloric acid is present

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Substance	Condition Temp. C	Type 304	Type 316	Type 410	Type 430	Hastelloy B	Hastelloy C	Nickel	Monel	Carpenter 20
Fluorine	21°	E	E	E	E	B	A	A	A	A
Formalin 40% solution formaldehyde		A	A	--	A	--	--	A	A	A
Formic acid 5% still	21°	B	A	D	C	B	A	A	A	B
5% still	65°	B	A	D	C	B	A	A	A	B
Fruit juices	21°	A	A	A	A	--	--	--	--	--
Fuel oil	Hot	A	A	--	--	--	--	B	B	A
Containing sulphuric		C	B	--	--	--	--	B	B	A
Gallic acid 5%	21°	A	A	A	A	--	B	A	A	A
	65°	A	A	A	A	--	B	A	A	B
Gasoline	21°	A	A	A	A	--	--	--	--	--
Glue dry	21°	A	A	--	A	--	--	A	A	A
solution -- acid	21°	B[1]	A	--	--	--	--	A	A	B
solution -- acid	60°	B[1]	A	--	--	--	--	A	A	B
Glycerine	21°	A	A	--	A	A	A	A	A	A
Hydrochloric acid	21°	E	E	E	E	B	A	B	B	E
Hydrocyanic acid		A	A	--	C	--	--	A	A	B
Hydrofluorosilicic acid	21°	E	D	--	--	B	B	A	A	B
Hydrogen peroxide	21°	A[3]	A	--	A[3]	--	A	A	A	A
	Boiling	B[3]	A	--	B[3]	--	--	--	--	A
Hydrogen sulphide dry		A	A	--	A[3]	A	A	A	A	B
wet		B[3]	A[3]	--	C[3]	A	A	A	A	B
Hyposulphite soda (Hypol)		A	A	--	B	--	--	B	A	B
Ink		B[3]	A	--	--	--	--	--	--	--
Iodine		E	D	--	E	--	B	D	D	B
Iodoform		A	A	--	--	--	--	--	--	A
Kerosine	21°	A	A	--	A	--	--	--	--	--
Ketchup	21°	A[1]	A	A[1]	A[1]	--	--	--	--	--
Lactic acid 5%	21°	A	A	C	B	B	A	A	A	B
5%	65°	B	A	D	B	B	A	A	A	B
10%	65°	C	B	--	--	B	A	B	B	B
Lactic acid 10%	Boiling	D	B	--	--	B	A	C	C	B
Lard	21°	A	A	--	A	--	--	--	--	--
Lead	Molten	B	B	--	B	--	--	D	D	B
Linseed oil	21°	A	A	--	A	--	--	A	A	A
Magnesium chloride... 1% & 5% still	21°	A[1]	A[1]	--	A[1]	A	A	A	A	A
	Hot	C[1]	B[1]	--	--	A	A	A	A	A
Magnesium sulphate	Cold & hot	A	A	--	A	A	B	A	A	A

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Malic acid	Cold & hot	B	A	C	B	--	--	A	A	A
Mayonnaise	21°	A[1]	A	--	--	--	--	B	B	A
Mercuric chloride ..... dilute		E[1]	D[1]	--	E[1]	--	B	D	D	E
Mercury		A	A	--	A	B	A	A	A	A
Methanol (methyl alcohol)		A	A	--	A	A	A	A	A	A
Milk ..... fresh or sour	Cold & hot	A	A	B	A	--	--	--	--	--
Mixed acids ..... 53% H_2SO_4	Cold	A	A	A	A	--	--	D	D	A
..... 45% HNO_3	Cold	A	A	A	A	--	--	D	D	A
Molasses		A	A	--	A	--	--	A	A	A
Muriatic (hydrochloric) acid HCl	21°	E	E	E	E	--	--	B	B	E
Mustard	21°	A[1]	A[1]	--	C[1]	--	--	A	B	A
Naphtha	21°	A	A	--	A	B	--	A	A	A
Naphtha ..... crude	21°	A	A	--	--	B	--	A	A	A
Nickel chloride solution	21°	A[1]	A[1]	--	--	A	A	B	B	B
Nickel sulphate	Cold & hot	A	A	--	--	--	B	A	A	B
Niter cake	Fused	B	A	--	B	--	--	--	--	E
Nitric acid ..... 5% & 20%	21°	A	A	A	A	E	A	E	E	A
..... 50%	21° & boiling	A	A	--	A	E	E	E	E	A
..... 65%	Boiling	B	B	E	C	E	A	E	E	A
..... concentrated	21°	A	A	A	A	E	A	E	E	A
..... concentrated	Boiling	D	D	E	D	E	E	E	E	B
Nitrous acid 5%	21°	A	A	--	A	--	--	D	D	B
Oils, crude	Cold & hot	A[3]	A[3]	--	A[3]	--	--	A	A	A
Oils, vegetable & mineral	Cold & hot	A[3]	A	--	A[3]	--	--	A	A	A
Oleic acid	21°	A[1]	A	--	B[1]	B	--	A	A	B
Oxalic acid 5%	Cold & hot	A	A	B	A	B	B	A	A	B
..... 10%	21°	A	A	--	--	B	B	A	A	B
..... 10%	Boiling	D	C	--	--	B	B	B	A	B
Paraffin	Cold & hot	A	A	A	A	--	--	A	A	A
Petroleum ether		A	A	A	A	--	--	A	A	A
Phenol		A	A	A	A	B	B	A	A	A
Phosphoric acid 1%	21°	A[4]	A[4]	A	A[4]	B	A	A	A	A
..... 5%	21°	A	A	A	A	B	A	A	A	A
..... 10% still	21°	C	A	D	D	B	A	B	A	A
..... 10% agitated	21°	C	B	D	C	--	--	B	B	A
..... 10% aerated	21°	C	B	D	C	--	--	C	C	A
Picric acid	21°	A	A	--	A	--	--	--	--	A

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Potassium bichromate	21°	A	A	--	A	--	B	A	A	A
Potassium bromide	21°	B[1]	A[1]	--	--	--	A	A	A	B
Potassium carbonate 1%	21°	A	A	A	A	B	B	A	A	A
Potassium carbonate	Hot	A	A	--	--	B	B	A	A	A
Potassium chlorate		A	A	--	A	--	--	A	A	B
Potassium chloride 1% & 5%	21°	A[1]	A[1]	A[1]	A[1]	B	B	A	A	B
	Boiling	A	A	--	--	B	--	A	A	B
Potassium ferricyanide 5%	21°	A	A	--	A	B	--	--	--	A
Potassium ferrocyanide 5%	21°	A	A	--	A	B	--	--	--	A
Potassium hydroxide 5%	21°	A	A	A	A	B	B	A	A	B
27%	Boiling	A	A	--	--	B	B	A	A	B
50%	Boiling	B	A	--	--	B	B	A	A	B
Potassium nitrate 1% & 5%	21°	A	A	A	A	--	B	A	A	B
	Hot	A	A	--	--	--	B	A	A	B
Potassium oxalate		A	A	--	A	--	--	A	A	A
Potassium permanganate 5%	21°	A	A	--	A	--	A	A	A	B
Potassium sulphate 1% & 5%	21°	A	A	A	A	--	B	A	A	B
	Hot	A	A	--	--	B	--	A	A	B
Potassium sulphide (salt)		A	A	--	--	--	--	A	A	A
Pyrogallic acid		A	A	--	A	B	B	A	A	B
Quinine bisulphate dry		B	A	--	B	--	--	A	A	B
Quinine sulphate dry		A	A	--	B	--	--	A	A	B
Rosin	Molten	A	A	--	A	--	A	A	A	B
Sea water		A[1]	A[1]	--	C[1]	--	A	A	A	A
Sewage		A[3]	A[3]	--	--	--	--	A	A	A
Silver bromide		B[1]	A[1]	--	C[1]	B	--	--	--	B
Silver chloride		E	E	--	E	--	B	--	--	E
Silver nitrate		A	A	--	A	B	--	E	E	B
Soap	21°	A	A	--	A	--	--	A	A	A
Sodium acetate moist		A[1]	A	--	A	--	B	A	A	B
Sodium bicarbonate	21°	A	A	A	A	B	B	A	A	A
5% still	65°	A	A	A	A	B	B	A	A	A
Sodium carbonate 5%	21° & 65°	A	A	A	A	B	--	A	A	A
Sodium chloride 5% still	21° & 65°	A[1]	A	B[1]	B[1]	B	A	A	A	B
20% aerated	21°	A[1]	A	--	--	--	--	A	A	B
saturated	21°	A[1]	A	--	--	B	A	A	A	B
saturated	Boiling	B[1]	A	--	--	--	--	A	A	B
Sodium fluoride 5%		B[1]	A[1]	--	C[1]	B	--	A	A	B

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[3] May attack when sulphuric acid is present

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Screen Services Chemical Resistances

Substance	Condition Temp. C	Type 304	Type 316	Type 410	Type 430	Hastelloy B	Hastelloy C	Nickel	Monel	Carpenter 20
Sodium hydroxide		A	A	--	A	A	A	A	A	B
Sodium hypochlorite ..... 5% still		B[1]	A[1]	--	C[1]	--	--	C	C	B
Sodium hyposuphite	21°	A[3]	A	--	B	B	B	A	A	A
Sodium nitrate	Fused	C	B	--	C	--	A	A	B	B
Sodium sulphate ..... 5% still	21°	A	A	--	A	A	--	A	A	A
..... all concentrations	21°	A	A	--	C	B	--	A	A	A
Sodium sulphide ..... saturated	21°	B[1]	A	--	B[1]	B	--	A	A	B
Sodium sulphite 5%	21°	A	A	--	C	--	A	A	A	A
..... 10%	65°	A	A	--	--	--	A	A	A	A
Stannic chloride ..... S.G. 1.21	Boiling	E	E	--	--	B	B	B	B	E
..... solution	21°	D	C	--	--	B	B	A	B	E
Stannous chloride ..... saturated		C	A	--	C	B	--	A	B	B
Steam		A	A	A	A	--	--	--	--	--
Stearic acid		A	A	--	A	A	A	A	A	B
Sugar juice		A	A	--	A	--	--	--	--	--
Sulphur chloride		E	D	--	--	--	--	A	A	C
Sulphur dioxide ..... gas - moist	21°	B	A	--	C	B	A	D	C	A
..... gas	300°	A	A	--	A	--	A	--	--	A
Sulphur ..... dry	Molten	A	A	--	A	B	A	A	A	A
..... Wet		B[1]	A[1]	--	B[1]	B	A	B	B	B
Sulphuric acid 5%	21°	C	B	--	C	A	A	A	A	A
..... 5%	Boiling	E	C	--	E	A	C	D	A	B
..... 10%	21°	C	B	--	C	A	A	B	A	A
..... 10%	Boiling	E	D	--	E	B	C	C	A	B
..... 50%	21°	D	C	--	--	A	A	B	A	A
..... 50%	Boiling	E	D	--	E	B	E	E	E	C
..... concentrated	21°	A	A	--	A	E	E	A	B	A
Sulphuric acid ..... concentrated	148°	E	E	--	E	B	E	E	E	C
..... concentrated	Boiling	D	D	--	D	E	E	E	E	C
..... Fuming	21°	C	B	--	--	--	--	C	B	B
Sulphurous acid ..... saturated	21°	C	B	--	C	--	B	E	E	B
..... saturated 410 kPa	121°	C	B	--	C	--	--	--	--	B
..... saturated 515/860 kPa	154°	C	B	--	C	--	--	--	--	A
..... 1030 kPa	190°	C	B	--	C	--	--	--	--	A
Sulphurous spray	21°	D[1]	D[1]	--	--	--	--	E	E	A
Tannic acid	21°	A	A	B	A	--	--	A	A	B
.....	65°	B	A	C	B	--	--	A	A	B
Tartaric acid	21°	A	A	C	C	B	B	A	A	A

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Screen Services Chemical Resistances

Substance	Condition Temp. C	Type 304	Type 316	Type 410	Type 430	Hastelloy B	Hastelloy C	Nickel	Monel	Carpenter 20
.....	65°	B	A	D	D	B	B	A	A	A
Tin	Molten	C	C	--	C	--	--	E	E	C
Trichloroacetic acid.....	21°	E	E	--	E	B	B	B	B	--
Varnish	21°	A	A	A	A	--	--	A	A	A
.....	Hot	A	A	--	--	--	--	A	A	A
Vegetable juices		A	A	--	--	--	--	--	--	--
Vinegar fumes.....		B	A	--	B	--	--	B	A	A
Vinegar ..... still	21°	A	A	A	A	--	--	A	A	A
.....agitated		A	A	B	A	--	--	A	A	A
.....Aerated	21°	A	A	A	A	--	--	B	A	A
Water		A	A	A	A	--	--	--	--	--
Zinc	Molten	E	E	--	E	--	--	E	E	E
Zinc chloride .....5% still	21°	A[1]	A[1]	--	A[1]	B	--	A	A	A
.....	Boiling	B[1]	B[1]	--	B[1]	B	--	B	B	B
Zinc sulphate 5%	21°	A	A	--	A	B	A	A	A	A
..... saturated	21°	A	A	--	A	--	A	A	A	A
..... 25%	Boiling	A	A	--	--	B	A	A	A	A

Legend		
Symbol	Description	Theoretical Penetration in μ Per Year
A	Resistant	Less than 100
B	Moderate resistance	100 to 1000
C	Slight resistance	1000 to 3000
D	Poor resistance	3000 to 10,000
E	Not resistant	Over 10,000

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