

به پیوست زیر جدول مقاومت شیمیایی الیازهای خاص مقاوم به خوردگی در محیطهای شیمیایی مختلف  
ارایه می گردد

### Corrosion Resistance of St.Stls (304,321,347,316 ), Nickel, Monel, Inconel, Hastalloy C

The table below indicates the approximate corrosion resistance of selected corrosion resistant metals to a range of common chemicals. This is collated information from various sources but is of limited quality. For good quality information please consult reputable reference texts and/or the links provided below the table

Key to Letters designating corrosion resistance

- A...Excellent Good Resistance less than 0,01mm per month (0,1 mm per year)
- B...Good Resistance < 0,01mm to 0,1mm per month (0,1mm to 1mm per year)
- C...Fair Resistance 0,1mm to 0,25mm per month ( 1mm to 3mm per year)
- D...Some Resistance 0,25mm to 0,9mm per month (3mm -11 mm per year)
- E...No Resistance > 0,9 mm per month (11 mm per year)

| Chemical /condition                  | Temp °C | 304, 321,347 Stain. Stl. | 316,316L Stain. Stl. | Nickel | Monel | Inconel | Hastalloy C |
|--------------------------------------|---------|--------------------------|----------------------|--------|-------|---------|-------------|
| Acetic Acid (20%)                    | 21      | A                        | A                    | A      | A     | A       | A           |
| Acetic Acid (50%)                    | 21      | A                        | A                    | B      | A     | A       | A           |
| Acetic Acid (50%)                    | Boiling | C                        | B                    | B      | A     | B       | A           |
| Acetic Acid (80%)                    | 21      | A                        | A                    | B      | A     | A       | A           |
| Acetic Acid (80%)                    | Boiling | D                        | B                    | B      | A     | B       | A           |
| Acetic Acid (100%)                   | 21      | A                        | A                    | A      | A     | A       | A           |
| Acetic Acid (100%)                   | Boiling | C                        | B                    | C      | B     | B       | A           |
| Acetic Acid (100% - 150 lb pressure) | 204     | E                        | C                    | -      | -     | -       | A           |
| Acetic Anhydride                     | Boiling | A                        | A                    | A      | A     | A       | A           |
| Acetic Anhydride                     | 21      | A                        | A                    | A      | A     | A       | A           |
| Acetic Vapours (100%)                | Hot     | E                        | C                    | C      | B     | B       |             |
| Acetic Vapours (30%)                 | Hot     | C                        | B                    | -      | -     | -       |             |
| Acetone                              | Boiling | A                        | A                    | A      | A     | A       | A           |
| Acetone                              | 21      | A                        | A                    | A      | A     | A       |             |
| Alcohol Ethyl                        | 21      | A                        | A                    | A      | A     | A       | A           |
| Alcohol Ethyl                        | Boiling | A                        | A                    | A      | A     | A       | A           |

|  |         |   |   |   |   |   |   |
|--|---------|---|---|---|---|---|---|
| Alcohol Methyl                           | 21      | A | A | A | A | A | A |
| Alcohol Methyl                           | 66      | C | B | A | A | A | A |
| Aluminium Acetate - saturated            |         | A | A | - | - | - |   |
| Aluminium Chloride                       | 21      | D | C | B | B | C | A |
| Alum (Chrome) 5%                         | 21      | A | A | C | C | A |   |
| Aluminium Fluoride                       | 21      | D | C | A | A | B | B |
| Aluminium Hydroxide - saturated          |         | A | A | A | A | A | B |
| Aluminium                                | Molten  | E | E | E | E | E |   |
| Aluminium Potassium Sulphate (2% alum)   | 21      | A | A | A | A | A | C |
| Aluminium Potassium Sulphate (10%)       | 21      | A | A | A | A | A | C |
| Aluminium Potassium Sulphate (10%)       | Boiling | B | A | B | A | B | C |
| Aluminium Potassium Sulphate (saturated) | Boiling | C | B | C | B | B | C |
| Aluminium Sulphate (10%)                 | 21      | A | A | A | A | A | B |
| Aluminium Sulphate (10%)                 | Boiling | B | A | B | A | B | B |
| Aluminium Sulphate (saturated)           | 21      | A | A | A | A | A | B |
| Aluminium Sulphate (saturated)           | Boiling | B | A | B | A | B | B |
| Ammonia - all concentrations             | 21      | A | A | - | - | A | A |
| Ammonia - gas                            | Hot     | D | - | - | - | - | A |
| Ammonia Liquor                           | 21      | A | A | C | C | A | A |
| Ammonia Liquor                           | Boiling | A | A | C | C | A | A |
| Ammonium Bicarbonate                     | 21      | A | A | A | A | A |   |
| Ammonium Bicarbonate                     | Hot     | A | A | A | A | A |   |
| Ammonium Carbonate (1% & 5%)             | 21      | A | A | A | A | A | B |
| Ammonium Chloride (1%)                   | 21      | A | A | A | A | A | D |
| Ammonium Chloride (10% solution)         | Boiling | A | A | A | A | B | D |
| Ammonium Chloride (28% solution)         | Boiling | B | A | A | A | B | D |
| Ammonium Chloride (50% solution)         | Boiling | B | A | A | A | B | D |
| Ammonium Nitrate (All con. agitated)     | 21      | A | A | C | C | A | B |
| Ammonium Nitrate (All con. aerated)      | 21      | A | A | C | C | A | B |
| Ammonium Nitrate (saturated)             | Boiling | A | A | E | E | B | B |

|  |          |   |   |   |   |   |   |
|--|----------|---|---|---|---|---|---|
| Ammonium Oxalate (5%)                          | 21       | A | A | A | A | A | A |
| Ammonium Persulphate (5%)                      | 21       | A | A | E | E | A | B |
| Ammonium Phosphate (5%)                        | 21       | A | A | A | A | A | B |
| Ammonium Sulphate (1% & 5% agitated)           | 21       | A | A | A | A | A | B |
| Ammonium Sulphate (1% & 5% aerated)            | 21       | A | A | A | A | A | B |
| Ammonium Sulphate (10%)                        | Boiling  | B | A | B | A | B | B |
| Ammonium Sulphate (saturated)                  | Boiling  | B | A | B | A | B | B |
| Ammonium Sulphite                              | Cold     | A | A | C | B | B |   |
| Ammonium Sulphite                              | Boiling  | A | A | E | C | C |   |
| Aniline (3%)                                   | 21       | A | A | A | A | A | B |
| Aniline (conc. Crude)                          | 21       | A | A | A | A | A | B |
| Aniline Hydrochloride                          | 21       | E | D | B | B | C | D |
| Antimony Trichloride                           | 21       | E | D | A | A | A |   |
| Barium Carbonate                               | 21       | A | A | A | A | A | B |
| Barium Chloride (5%)                           | 21       | A | A | A | A | A | B |
| Barium Chloride (saturated)                    | 21       | A | A | A | A | A |   |
| Barium Chloride (aqueous solution)             | Hot      | B | A | A | A | B |   |
| Barium Nitrate (aqueous solution)              | Hot      | A | A | C | C | B |   |
| Barium Sulphate Barytes (blanc * * *ixe)       | 21       | A | A | A | A | A | A |
| Benzene  | 21       | A | A | A | A | A | B |
| Benzoic Acid                                   | 21       | A | A | A | A | A | B |
| Boracic Acid (5%)                              | Hot/Cold | A | A | A | A | A |   |
| Borax (5%)                                     | Hot      | A | A | A | A | A | B |
| Bromide (dry)                                  | 21       | - | - | A | A | A |   |
| Bromine Water                                  | 21       | E | D | D | D | D | A |
| Butyric Acid (5%)                              | 21       | A | A | A | A | A | A |
| Butyric Acid (5%)                              | 66       | A | A | A | A | A | A |
| Butyric Acid (aqueous solution - sp. g. 0.964) | Boiling  | A | A | - | - | A | A |
| Calcium Carbonate                              | 21       | A | A | A | A | A | B |
| Calcium Chlorate (dilute solution)             | 21       | A | A | A | A | A |   |
| Calcium Chlorate (dilute solution)             | Hot      | A | A | A | A | B |   |

|  |         |   |   |   |   |   |   |
|--|---------|---|---|---|---|---|---|
| Calcium Chloride (dilute solution)                         | 21      | B | A | A | A | A | A |
| Calcium Chloride (concentrated solutions)                  | 21      | B | A | A | A | A | A |
| Calcium Hydroxide (10%)                                    | Boiling | A | A | A | A | A | A |
| Calcium Hydroxide (20%)                                    | Boiling | A | A | A | A | A | A |
| Calcium Hydroxide (50%)                                    | Boiling | C | B | A | A | A | A |
| Calcium Hyperchlorite (2%)                                 | 21      | B | A | C | C | B | B |
| Calcium Sulphate (saturated)                               | 21      | A | A | A | A | A | B |
| Carbolic Acid (Phenol)                                     | Boiling | A | A | A | A | A | A |
| Carbonated water   |         | A | A | A | A | A |   |
| Carbon Bisulphide  | 21      | A | A | A | A | A |   |
| Carbon monoxide gas  | 871     | A | A | - | - | - | B |
| Carbon monoxide gas  | 760     | A | A | - | - | - | B |
| Carbon tetrachloride (pure)                                | 21      | A | A | A | A | A | A |
| Carbon tetrachloride (aqueous solution - 5-10%)            | 21      | C | - | A | A | A |   |
| Chloracetic Acid   | 21      | D | C | A | A | A | A |
| Chlorbenzol Conc. (pure)                                   | 21      | A | A | A | A | A |   |
| Chloric Acid   | 21      | E | D | D | D | D | A |
| Chlorinated Water (saturated)                              | 21      | C | B | C | C | B | A |
| Chlorine gas (dry)   | 21      | C | B | C | C | C | A |
| Chlorine gas (moist)                                       | 21      | D | C | C | C | C | A |
| Chlorine gas   | 100     | E | D | A | A | A |   |
| Chloroform   | 21      | A | A | A | A | A | A |
| Chromic Acid (5%)  | 21      | A | A | A | A | A | B |
| Chromic Acid (10% CP)                                      | Boiling | C | B | C | B | C | A |
| Chromic Acid (50% Com. Cont. SO <sub>3</sub> )             | Boiling | D | C | - | - | - | B |
| Chromium Plating Bath                                      | 21      | A | A | C | C | A |   |
| Citric Acid (5% still)                                     | 21      | A | A | A | A | A | A |
| Citric Acid (5% still)                                     | 66      | A | A | A | A | A | A |
| Citric Acid (15%)  | 21      | A | A | A | A | A | A |
| Citric Acid (15%)  | Boiling | B | A | B | A | A | A |
| Citric Acid (concentrated)                                 | Boiling | C | B | B | A | B | A |
| Copper Acetate (saturated sol.)                            | 21      | A | A | C | C | A |   |
| Copper Carbonate (sat. solution in 50% NH <sub>4</sub> OH) |         | A | A | C | C | A |   |
| Copper Chloride (1% agitated)                              | 21      | B | A | B | B | A |   |

|  |         |   |   |   |   |   |   |
|--|---------|---|---|---|---|---|---|
| Copper Chloride (1% aerated)               | 21      | B | A | B | B | A |   |
| Copper Chloride (5% agitated)              | 21      | C | B | C | C | C |   |
| Copper Chloride (5% aerated)               | 21      | E | D | D | D | C |   |
| Copper Cyanide (saturated solution)        | Boiling | A | A | B | B | B | A |
| Copper Nitrate (1% and 5%)                 | 21      | A | A | C | C | A | B |
| Copper Nitrate (50% aqueous solution)      | Hot     | A | A | E | E | C | B |
| Copper Sulphate (5%)                       | 21      | A | A | B | B | A | A |
| Copper Sulphate (saturated solution)       | Boiling | A | A | C | C | C | A |
| Creosote (Coal Tar)                        | Hot     | A | A | A | A | A | A |
| Creosote Oil                               | Hot     | A | A | A | A | A |   |
| Cyanogen Gas                               | 21      | A | A | A | A | A |   |
| Dinitrochlorbenzol (melted and solidified) | 21      | A | A | - | - | - |   |
| Ether                                      | 21      | A | A | A | A | A | B |
| Ethyl Chloride                             | 21      | A | A | A | A | A | B |
| Ethylene Chloride                          | 21      | A | A | A | A | A |   |
| Ferric Chloride (1% solution - still)      | 21      | B | A | B | C | C | B |
| Ferric Chloride (1% solution - still)      | Boiling | D | C | E | E | E | B |
| Ferric Chloride (5% solution - still)      | 21      | D | C | D | D | C | B |
| Ferric Chloride (5% - agitated)            | 21      | C | C | D | D | C | B |
| Ferric Chloride (5% - aerated)             | 21      | C | C | D | D | C | B |
| Ferric Hydroxide (Hydrated Iron Oxide)     | 21      | A | A | A | A | A |   |
| Ferric Nitrate (1% and 5%)                 | 21      | A | A | D | D | A | B |
| Ferric Sulphate (1% and 5%)                | 21      | A | A | C | C | A | A |
| Ferrous Sulphate (dilute sol.)             | 21      | A | A | A | A | A | B |
| Fluorine                                   | 21      | E | E | A | A | A | B |
| Formalin (40% sol. Formaldehyde)           |         | A | A | A | A | A |   |
| Formic Acid (5% still)                     | 21      | B | A | A | A | A | A |
| Formic Acid (5% still)                     | 66      | B | A | A | A | A | A |
| Fuel Oil                                   | Hot     | A | A | B | B | A | A |
| Fuel Oil (containing sulphuric acid)       |         | C | B | B | B | B | A |
| Gallic Acid (5% solution)                  | 21      | A | A | A | A | A | B |

|  |          |   |   |   |   |   |     |
|--|----------|---|---|---|---|---|-----|
| Gallic Acid (5% solution)              | 66       | A | A | A | A | A | B   |
| Glue (dry)                             | 21       | A | A | A | A | A |     |
| Glue (solution - acid)                 | 21       | B | A | A | A | A |     |
| Glue (solution - acid)                 | 60       | B | A | A | A | A |     |
| Glycerine                              | 21       | A | A | A | A | A | A   |
| Hydrochloric Acid (all concentrations) | 21       | E | E | B | B | C | A/B |
| Hydrocyanic Acid                       |          | A | A | A | A | A | A   |
| Hydrofluosilicic Acid                  | 21       | E | D | A | A | B | B   |
| Hydrogen Peroxide                      | 21       | A | A | A | A | A | A   |
| Hydrogen Peroxide                      | Boiling  | B | A | - | - | - | A   |
| Hydrogen Sulphide (dry)                |          | A | A | A | A | A | A   |
| Hydrogen Sulphide (wet_                |          | B | A | A | A | A | A   |
| Hyposulphite Soda (Hypo)               |          | A | A | B | A | A |     |
| Iodine                                 |          | E | D | D | D | D | A   |
| Iodoform                               |          | A | A | - | - | - | D   |
| Lactic Acid (5%)                       | 21       | A | A | A | A | A | B   |
| Lactic Acid (5%)                       | 66       | B | A | A | A | A | B   |
| Lactic Acid (10%)                      | Boiling  | D | B | C | C | B | B   |
| Lactic Acid (10%)                      | 66       | C | B | B | B | B | B   |
| Lead                                   | Molten   | B | B | D | D | B |     |
| Linseed Oil                            | 21       | A | A | A | A | A |     |
| Magnesium Chloride (1% and 5% - still) | 21       | A | A | A | A | A | A   |
| Magnesium Chloride (1% and 5% - still) | Hot      | C | B | A | A | A | A   |
| Magnesium Sulphate                     | Hot/Cold | A | A | A | A | A | B   |
| Malic Acid                             | Hot/Cold | B | A | A | A | A | B   |
| Mayonnaise                             | 21       | A | A | A | A | A | A   |
| Mercuric Chloride (dilute solutions)   |          | E | D | D | D | D | C   |
| Mercury                                |          | A | A | A | A | A | A   |
| Methanol (Methyl Alcohol)              | 21       | A | A | A | A | A | A   |
| Mixed Acids (53% H2SO4)                | Cold     | A | A | D | D | A |     |
| Mixed Acids (45% HN03)                 | Cold     | A | A | D | D | A |     |
| Molasses                               |          | A | A | A | A | A | A   |
| Muriatic Acid                          | 21       | E | E | B | B | C |     |
| Mustard                                | 21       | A | A | A | B | B | A   |

|                                  |          |   |   |   |   |   |   |
|----------------------------------|----------|---|---|---|---|---|---|
| Naphtha                          | 21       | A | A | A | A | A | B |
| Naphtha (crude)                  | 21       | A | A | A | A | A | B |
| Nickel Chloride (solution)       | 21       | A | A | B | B | B | B |
| Nickel Sulphate                  | Hot/Cold | A | A | A | A | A | B |
| Niter Cake                       | Fused    | B | A | - | - | - |   |
| Nitric Acid (5% solution)        | 21       | A | A | E | E | B | A |
| Nitric Acid (20% solution)       | 21       | A | A | E | E | A | A |
| Nitric Acid (50% solution)       | 21       | A | A | E | E | A | A |
| Nitric Acid (50% solution)       | Boiling  | A | A | E | E | C | A |
| Nitric Acid (65% solution)       | Boiling  | B | B | E | E | D | A |
| Nitric Acid (concentrated)       | 21       | A | A | E | E | A | B |
| Nitric Acid (concentrated)       | Boiling  | D | D | E | E | D | B |
| Nitrous Acid (5% solution)       | 21       | A | A | D | D | A | D |
| Oils (crude)                     | Hot/Cold | A | A | A | A | A |   |
| Oils (vegetable, mineral)        | Hot/Cold | A | A | A | A | A |   |
| Oleic Acid                       | 21       | A | A | A | A | A | A |
| Oxalic Acid (5%)                 | Hot/Cold | A | A | A | A | A | B |
| Oxalic Acid (10%)                | 21       | A | A | A | A | A | B |
| Oxalic Acid (10%)                | Boiling  | B | C | B | A | B | B |
| Paraffin                         | Hot/Cold | A | A | A | A | A | B |
| Petroleum Ether                  |          | A | A | A | A | A |   |
| Phenol                           |          | A | A | A | A | A | A |
| Phosphoric Acid (1%)             | 21       | A | A | A | A | A | A |
| Phosphoric Acid (5%)             | 21       | A | A | A | A | A | A |
| Phosphoric Acid (10% - still)    | 21       | C | A | B | A | A | A |
| Phosphoric Acid (10% - agitated) | 21       | C | B | B | B | B | A |
| Phosphoric Acid (10% - aerated)  | 21       | C | B | C | C | B | A |
| Picric Acid                      | 21       | A | A | - | - | - | B |
| Potassium Bichromate             | 21       | A | A | A | A | A |   |
| Potassium Bromide                | 21       | B | A | A | A | A | B |
| Potassium Carbonate (1%)         | 21       | A | A | A | A | A | B |
| Potassium Carbonate (1%)         | Hot      | A | A | A | A | A | B |
| Potassium Chlorate               |          | A | A | A | A | A | B |
| Potassium Chloride (1% and 5%)   | 21       | A | A | A | A | A | A |
| Potassium Chloride (1% and       | Boiling  | A | A | A | A | A | A |

|   |         |   |   |   |   |   |   |
|---|---------|---|---|---|---|---|---|
| 5%)                                     |         |   |   |   |   |   |   |
| Potassium Ferricyanide (5%)             | 21      | A | A | - | - | - | B |
| Potassium Ferrocyanide (5%)             | 21      | A | A | - | - | - | B |
| Potassium Hydroxide (5%)                | 21      | A | A | A | A | A | B |
| Potassium Hydroxide (27%)               | Boiling | A | A | A | A | A | B |
| Potassium Hydroxide (50%)               | Boiling | B | A | A | A | A | B |
| Potassium Nitrate (1% and 5%)           | 21      | A | A | A | A | A | B |
| Potassium Nitrate (1% and 5%)           | Hot     | A | A | A | A | A | B |
| Potassium Oxalate                       |         | A | A | A | A | A | A |
| Potassium Permanganate (5%)             | 21      | A | A | A | A | A | A |
| Potassium Sulphate (1% and 5%)          | 21      | A | A | A | A | A | B |
| Potassium Sulphate (1% and 5%)          | Hot     | A | A | A | A | A | B |
| Potassium Sulphide (salt)               |         | A | A | A | A | A |   |
| Pyrogallic Acid                         |         | A | A | A | A | A |   |
| Quinine Bisulphate (dry)                |         | B | A | A | A | A |   |
| Quinine Sulphate (dry)                  |         | A | A | A | A | A |   |
| Rosin                                   | Molten  | A | A | A | A | A |   |
| Sea Water                               |         | A | A | A | A | A | A |
| Sewage                                  |         | A | A | A | A | A |   |
| Silver Bromide                          |         | B | A | - | - | - | A |
| Silver Chloride                         |         | E | E | - | - | - |   |
| Silver Nitrate                          |         | A | A | E | E | A | A |
| Soap                                    | 21      | A | A | A | A | A | A |
| Sodium Acetate (moist)                  |         | A | A | A | A | A | A |
| Sodium Bicarbonate (all concentrations) | 21      | A | A | A | A | A | B |
| Sodium Bicarbonate (5% - still)         | 66      | A | A | A | A | A | B |
| Sodium Carbonate (5%)                   | 21      | A | A | A | A | A | A |
| Sodium Carbonate (5%)                   | 66      | A | A | A | A | A | A |
| Sodium Chloride (5% - still)            | 21      | A | A | A | A | A | A |
| Sodium Chloride (5% - still)            | 66      | A | A | A | A | A | A |
| Sodium Chloride (20% aerated)           | 21      | A | A | A | A | A | A |
| Sodium Chloride (saturated)             | 21      | A | A | A | A | A | A |
| Sodium Chloride (saturated)             | Boiling | B | A | A | A | A | A |
| Sodium Fluoride (5% solution)           |         | B | A | A | A | A | A |
| Sodium Hydroxide                        |         | A | A | A | A | A |   |



|  |         |   |   |   |   |   |   |
|--|---------|---|---|---|---|---|---|
| Sodium Hypochlorite (5% - still)                 |         | B | A | C | C | C | A |
| Sodium Hyposulphite                              | 21      | A | A | A | A | A |   |
| Sodium Nitrate                                   | Fused   | C | B | A | B | A | B |
| Sodium Sulphate (5% -still)                      | 21      | A | A | A | A | A | B |
| Sodium Sulphate (all concentrations)             | 21      | A | A | A | A | A | B |
| Sodium Sulphide (saturated)                      |         | B | A | A | A | A | B |
| Sodium Sulphite (5%)                             | 21      | A | A | A | A | A | B |
| Sodium Sulphite (10%)                            | 66      | A | A | A | A | A | B |
| Stannic Chloride (Sp. G. 1.21)                   | Boiling | E | E | B | B | C |   |
| Stannic Chloride (solution)                      | 21      | D | C | A | B | B |   |
| Stannous Chloride (saturated)                    |         | C | A | A | B | B |   |
| Stearic Acid                                     |         | A | A | A | A | A |   |
| Sulphur Chloride                                 |         | E | D | A | A | A |   |
| Sulphur Dioxide Gas (moist)                      | 21      | B | A | D | C | C |   |
| Sulphur Dioxide Gas (moist)                      | 302     | A | A | - | - | - |   |
| Sulphur (dry)                                    | Molten  | A | A | A | A | A |   |
| Sulphur (wet)                                    |         | B | A | B | B | A |   |
| Sulphuric Acid (5%)                              | 21      | C | B | A | A | A | B |
| Sulphuric Acid (5%)                              | Boiling | E | C | D | A | C | B |
| Sulphuric Acid (10%)                             | 21      | C | B | B | A | B | B |
| Sulphuric Acid (10%)                             | Boiling | E | D | C | A | C | B |
| Sulphuric Acid (50%)                             | 21      | D | C | B | A | B | B |
| Sulphuric Acid (50%)                             | Boiling | E | D | E | E | E | B |
| Sulphuric Acid (concentrated)                    | 21      | A | A | B | B | B | A |
| Sulphuric Acid (concentrated)                    | Boiling | D | D | E | E | E | A |
| Sulphuric Acid (concentrated)                    | 149     | E | E | E | E | E | A |
| Sulphuric Acid (fuming)                          | 21      | C | B | C | B | B | B |
| Sulphurous Acid (saturated)                      | 21      | C | B | E | E | E | B |
| Sulphurous Acid (saturated 60 lb pressure)       | 121     | C | B | E | E | E | B |
| Sulphurous Acid (saturated 70 - 125 lb pressure) | 154     | C | B | E | E | E | B |
| Sulphurous Acid (150 lb pressure)                | 191     | C | B | E | E | E | B |
| Sulphurous Acid (sulphurous spray)               | 21      | D | D | E | E | E | B |
| Tannic Acid                                      | 21      | A | A | A | A | A | B |

|                            |            |                                   |                            |        |       |        |                |
|----------------------------|------------|-----------------------------------|----------------------------|--------|-------|--------|----------------|
| Tannic Acid                | 66         | B                                 | A                          | A      | A     | A      | B              |
| Tartaric Acid              | 21         | A                                 | A                          | A      | A     | A      | B              |
| Tartaric Acid              | 66         | B                                 | A                          | A      | A     | A      | B              |
| Tin                        | Molten     | C                                 | C                          | E      | E     | E      | C              |
| Trichloroacetic Acid       | 21         | E                                 | E                          | B      | B     | B      | B              |
| Varnish                    | 21         | A                                 | A                          | A      | A     | A      | A              |
| Varnish                    | Hot        | A                                 | A                          | A      | A     | A      | A              |
| Vinegar Fumes              |            | B                                 | A                          | B      | A     | A      | A              |
| Vinegar (still)            | 21         | A                                 | A                          | A      | A     | A      | A              |
| Vinegar (agitated)         |            | A                                 | A                          | A      | A     | A      | A              |
| Vinegar (aerated)          | 21         | A                                 | A                          | B      | A     | A      | A              |
| Zinc                       | Molten     | E                                 | E                          | E      | E     | E      |                |
| Zinc Chloride (5% - still) | 21         | A                                 | A                          | A      | A     | A      | B              |
| Zinc Chloride (5% - still) | Boiling    | B                                 | B                          | B      | B     | B      | B              |
| Zinc Sulphate (5%)         | 21         | A                                 | A                          | A      | A     | A      | A              |
| Zinc Sulphate (saturated)  | 21         | A                                 | A                          | A      | A     | A      | A              |
| Zinc Sulphate (25%)        | Boiling    | A                                 | A                          | A      | A     | A      | A              |
| Chemical /condition        | Temp<br>°C | 304,<br>321,347<br>Stain.<br>Stl. | 316,316L<br>Stain.<br>Stl. | Nickel | Monel | Iconel | Hastalloy<br>C |