



# TAURUS

## ENGINEERING SOLUTIONS

TEL: 031 533 5100 | CELL: 082 575 7802

### CORROSION RESISTANCE DATA

Continued

| Product and condition               | Temp.       | 304 304ELC | 321 347 | 316 316L | Nickel | Monel | Inconel |
|-------------------------------------|-------------|------------|---------|----------|--------|-------|---------|
| (*F.)                               |             |            |         |          |        |       |         |
| Galic Acid                          |             |            |         |          |        |       |         |
| 5% solution                         | 70°         | A          |         | A        | A      | A     | A       |
| 5% solution                         | 150°        | A          |         | A        | A      | A     | A       |
| Glue - dry                          | 70°         | A          |         | A        | A      | A     | A       |
| Solution - acid                     | 70°         | B          |         | A        | A      | A     | A       |
| Solution - acid                     | 140°        | B          |         | A        | A      | A     | A       |
| Glycerine                           | 70°         | A          |         | A        | A      | A     | A       |
|                                     |             |            |         |          |        |       |         |
| Hydrochloric Acid                   |             |            |         |          |        |       |         |
| All concentrations ...              | 70°         | E          |         | E        | B      | B     | C       |
| Hydrocyanic Acid                    |             | A          |         | A        | A      | A     | A       |
| Hydrofluosilicic Acid ..            | 70°         | E          |         | D        | A      | A     | B       |
| Hydrogen Peroxide ....              | 70°         | A          |         | A        | A      | A     | A       |
|                                     | Boiling     | B          |         | A        | -      | -     | -       |
| Hydrogen Sulphide                   |             |            |         |          |        |       |         |
| Dry                                 |             | A          |         | A        | A      | A     | A       |
| Wet                                 |             | B          |         | A        | A      | A     | A       |
| Hyphosulphite Soda (Hypo)           |             | A          |         | A        | B      | A     | A       |
|                                     |             |            |         |          |        |       |         |
| Iodine                              |             | E          |         | D        | D      | D     | D       |
| Iodoform                            |             | A          |         | A        | -      | -     | -       |
|                                     |             |            |         |          |        |       |         |
| Lactic Acid                         |             |            |         |          |        |       |         |
| 5%                                  | 70°         | A          |         | A        | A      | A     | A       |
| 5%                                  | 150°        | B          |         | A        | A      | A     | A       |
| 10%                                 | Boiling     | D          |         | B        | C      | C     | B       |
| 10%                                 | 150°        | C          |         | B        | B      | B     | B       |
| Lead                                | Molten      | B          |         | B        | D      | D     | B       |
| Linseed Oil                         | 70°         | A          |         | A        | A      | A     | A       |
|                                     |             |            |         |          |        |       |         |
| Magnesium Chloride                  |             |            |         |          |        |       |         |
| 1% and 5%, still                    | 70°         | A          |         | A        | A      | A     | A       |
| 1% and 5%, still                    | Hot         | C          |         | B        | A      | A     | A       |
| Magnesium Sulphate ..               | Hot or Cold | A          |         | A        | A      | A     | A       |
| Malic Acid                          | Hot or Cold | B          |         | A        | A      | A     | A       |
| Mayonnaise                          | 70°         | A          |         | A        | B      | B     | A       |
| Mercuric Chloride Dilute solutions  |             | E          |         | D        | D      | D     | D       |
| Mercury                             |             | A          |         | A        | A      | A     | A       |
| Methanol (Methyl)                   |             |            |         |          |        |       |         |
| Alcohol                             | 70°         | A          |         | A        | A      | A     | A       |
| Mixed Acids                         |             |            |         |          |        |       |         |
| 53%, H <sub>2</sub> SO <sub>4</sub> | Cold        | A          |         | A        | D      | D     | A       |
| 45% H N O <sub>3</sub>              | Cold        | A          |         | A        | D      | D     | A       |
| Molasses                            |             | A          |         | A        | A      | A     | A       |
| Muriatic Acid                       | 70°         | E          |         | E        | B      | B     | C       |
| Mustard                             | 70°         | A          |         | A        | A      | B     | B       |
|                                     |             |            |         |          |        |       |         |
| Naphtha                             | 70°         | A          |         | A        | A      | A     | A       |
| Naphtha - crude                     | 70°         | A          |         | A        | A      | A     | A       |
| Nickel Chloride - solution          | 70°         | A          |         | A        | B      | B     | B       |

| Product and condition     | Temp.       | 304 304ELC | 321 347 | 316 316L | Nickel | Monel | Inconel |
|---------------------------|-------------|------------|---------|----------|--------|-------|---------|
| (*F.)                     |             |            |         |          |        |       |         |
| Nickel Sulphate           | Hot or Cold | A          |         | A        | A      | A     | A       |
| Niter Cake Fused          |             | B          |         | B        | -      | -     | -       |
| Nitric Acid               |             |            |         |          |        |       |         |
| 5% solution               | 70°         | A          |         | A        | E      | E     | B       |
| 50% solution              | 70°         | A          |         | A        | E      | E     | A       |
| 50% solution              | Boiling     | A          |         | A        | E      | E     | C       |
| 65% solution              | Boiling     | B          |         | B        | E      | E     | D       |
| Concentrated              | 70°         | A          |         | A        | E      | E     | A       |
| Concentrated              | Boiling     | D          |         | D        | E      | E     | D       |
| Nitrous Acid -            |             |            |         |          |        |       |         |
| 5% solution               | 70°         | A          |         | A        | D      | D     | A       |
|                           |             |            |         |          |        |       |         |
| Oils - crude              | Hot or Cold | A          |         | A        | A      | A     | A       |
| Oils - vegetable, mineral | Hot or Cold | A          |         | A        | A      | A     | A       |
| Oleic Acid                | 70°         | A          |         | A        | A      | A     | A       |
| Oxalic Acid               |             |            |         |          |        |       |         |
| 5%                        | Hot or Cold | A          |         | A        | A      | A     | A       |
| 10%                       | 70°         | A          |         | A        | A      | A     | A       |
| 10%                       | Boiling     | D          |         | C        | B      | A     | B       |
| Paraffin                  | Hot or Cold | A          |         | A        | A      | A     | A       |
| Petroleum Ether           |             | A          |         | A        | A      | A     | A       |
| Phenol                    |             | A          |         | A        | A      | A     | A       |
| Phosphoric Acid           |             |            |         |          |        |       |         |
| 1%                        | 70°         | A          |         | A        | A      | A     | A       |
| 5%                        | 70°         | A          |         | A        | A      | A     | A       |
| 10%, still                | 70°         | C          |         | A        | B      | A     | A       |
| 10%, agitated             | 70°         | C          |         | B        | B      | B     | B       |
| 10%, aerated              | 70°         | C          |         | B        | C      | C     | B       |
| Picric Acid               | 70°         | A          |         | A        | -      | -     | -       |
| Potassium Bichromate      | 70°         | A          |         | A        | A      | A     | A       |
| Potassium Bromide         | 70°         | B          |         | A        | A      | A     | A       |
| Potassium Carbonate       |             |            |         |          |        |       |         |
| 1%                        | 70°         | A          |         | A        | A      | A     | A       |
| 1%                        | Hot         | A          |         | A        | A      | A     | A       |
| Potassium Chlorate        |             | A          |         | A        | A      | A     | A       |
| Potassium Chloride        |             |            |         |          |        |       |         |
| 1% and 5%                 | 70°         | A          |         | A        | A      | A     | A       |
| 1% and 5%                 | Boiling     | A          |         | A        | A      | A     | A       |
| Potassium Ferricyanide    |             |            |         |          |        |       |         |
| -5%                       | 70°         | A          |         | A        | -      | -     | -       |
| Potassium Ferrocyanide    |             |            |         |          |        |       |         |
| -5%                       | 70°         | A          |         | A        | -      | -     | -       |
| Potassium Hydroxide       |             |            |         |          |        |       |         |
| 5%                        | 70°         | A          |         | A        | A      | A     | A       |
| 27%                       | Boiling     | A          |         | A        | A      | A     | A       |
| 50%                       | Boiling     | B          |         | A        | A      | A     | A       |
| Potassium Nitrate         |             |            |         |          |        |       |         |
| 1% and 5%                 | 70°         | A          |         | A        | A      | A     | A       |
| 1% and 5%                 | Hot         | A          |         | A        | A      | A     | A       |
| Potassium Oxalate         |             | A          |         | A        | A      | A     | A       |
| Potassium Perman-         |             |            |         |          |        |       |         |
| ganate - 5%               | 70°         | A          |         | A        | A      | A     | A       |
| Potassium Sulphate        |             |            |         |          |        |       |         |
| 1% and 5%                 | 70°         | A          |         | A        | A      | A     | A       |