



## Material - ASTM B 622 N06975

### Standard Specification for Seamless Nickel and Nickel-Cobalt Alloy Pipe and Tube

Group - Non-Ferrous Nickel Alloys

Sub Group - ASTM B 622 N06975 Seamless Nickel and Nickel-Cobalt Alloy Pipe and Tube

Application - Intended for Valve, Pump, General Engineering, Automotive and other Industries

Grade Belongs to the Industry - Pipe and Tube

| Chemical Composition |      |                 | Heat Treatment                       |          |
|----------------------|------|-----------------|--------------------------------------|----------|
| Carbon               | C %  | 0.030 max.      | As-Cast or Annealing or Age Hardning |          |
| Silicon              | Si % | 1.000 max.      |                                      |          |
| Manganese            | Mn % | 1.000 max.      |                                      |          |
| Chromium             | Cr % | 23.000 - 26.000 |                                      |          |
| Sulphur              | S %  | 0.030 max.      |                                      |          |
| Molybdenum           | Mo % | 5.000 - 7.000   |                                      |          |
| Phosphorus           | P %  | 0.030 max.      |                                      |          |
| Titanium             | Ti % | 0.700 - 1.500   |                                      |          |
| Copper               | Cu % | 0.700 - 1.200   |                                      |          |
| Nickel               | Ni % | 47.000 - 52.000 |                                      |          |
| Iron                 | Fe % | Balance         | <b>Mechanical Properties</b>         |          |
| -                    | -    | -               | Tensile Strength in Mpa              | 586 min. |
| -                    | -    | -               | Yield Strength in Mpa                | 221 min. |
| -                    | -    | -               | Elongation in %                      | 40 min.  |
| -                    | -    | -               | Reduction of Area in %               | -        |
| -                    | -    | -               | Hardness in BHN                      | -        |
| -                    | -    | -               | Impact in Joule                      | -        |

| Cross Reference Table |          |         |                              |
|-----------------------|----------|---------|------------------------------|
| Material              | Standard | Country | Grade Belong to the Industry |
| B 581 N06975          | ASTM     | USA     | Rod                          |
| B 582 N06975          | ASTM     | USA     | Plate, Sheet and Strip       |
| B 619 N06975          | ASTM     | USA     | Pipe                         |
| B 626 N06975          | ASTM     | USA     | Tube                         |
| SB-581 N06975         | ASME     | USA     | Rod                          |
| SB-582 N06975         | ASME     | USA     | Plate, Sheet and Strip       |
| SB-619 N06975         | ASME     | USA     | Pipe                         |

**Further any inquiry to discuss with Gravity Cast Pvt. Ltd. – Gravity Group of Companies team member Call on +918469160029, or email [marketing@gravitycastindia.com](mailto:marketing@gravitycastindia.com)**

All information in our data sheets and website is indicative only and is not intended to be a substitute for the full specification from which it is extracted. It is intended to provide typical values to allow comparison between metal alloy option rather than a definitive statement of mechanical performance or suitability for a particular application as these will vary with temperature, product type and product application. It is presented apart from contractual obligations and does not constitute any guarantee of properties or of processing or application possibilities in individual cases. Our warranties and liabilities are stated exclusively in our terms of business.