

## Material - ASTM B 622 N06035

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

Group - Non-Ferrous Nickel Alloys

Sub Group - ASTM B 622 N06035 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 %  | 0.050 max.      | As-Cast or Annealing or Age Hardning |          |
| Silicon              | Si % | 0.600 max.      |                                      |          |
| Manganese            | Mn % | 0.500 max.      |                                      |          |
| Copper               | Cu % | 0.300 max.      |                                      |          |
| Sulphur              | S %  | 0.015 max.      |                                      |          |
| Chromium             | Cr % | 32.250 - 34.250 |                                      |          |
| Aluminium            | Al % | 0.400 max.      |                                      |          |
| Iron                 | Fe % | 2.000 max.      |                                      |          |
| Cobalt               | Co % | 1.000 max.      | Mechanical Properties                |          |
| Phosphorus           | P %  | 0.030 max.      | Tensile Strength in Mpa              | 586 min. |
| Molybdenum           | Mo % | 7.600 - 9.000   | Yield Strength in Mpa                | 241 min. |
| Tungsten             | W %  | 0.600 max.      | Elongation in %                      | 30 min.  |
| Vanadium             | V %  | 0.200 max.      | Reduction of Area in %               | -        |
| Nickel               | Ni % | Balance         | Hardness in BHN                      | -        |
| -                    | -    | -               | Impact in Joule                      | -        |

| Cross Reference Table |          |         |                                         |
|-----------------------|----------|---------|-----------------------------------------|
| Material              | Standard | Country | Grade Belong to the Industry            |
| B 564 N06035          | ASTM     | USA     | Forging                                 |
| B 574 N06035          | ASTM     | USA     | Rod                                     |
| B 575 N06035          | ASTM     | USA     | Plate, Sheet and Strip                  |
| B 462 N06035          | ASTM     | USA     | Pipe Flanges, Forged Fittings and Valve |
| B 619 N06035          | ASTM     | USA     | Pipe                                    |
| B 626 N06035          | ASTM     | USA     | Tube                                    |
| B 472 N06035          | ASTM     | USA     | Billets and Bars                        |

**For any further inquiries, please do not hesitate to contact us. You may visit our website at [AMTECH TECHNOCAST PVT. LTD.](http://AMTECH TECHNOCAST PVT. LTD.), call us at [+91 9879817994](tel:+919879817994), or email us at [manish@amtechtechnocast.com](mailto:manish@amtechtechnocast.com)**

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