



## **Material - ASTM B 622 N06059**

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

**Group - Non-Ferrous Nickel Alloys** 

Sub Group - ASTM B 622 N06059 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 %  | 0.010 max.      |                                      |          |
| Silicon              | Si % | 0.100 max.      |                                      |          |
| Manganese            | Mn % | 0.500 max.      | As-Cast or Annealing or Age Hardning |          |
| Chromium             | Cr % | 22.000 - 24.000 |                                      |          |
| Sulphur              | S %  | 0.010 max.      |                                      |          |
| Molybdenum           | Mo % | 15.000 - 16.500 |                                      |          |
| Phosphorus           | P %  | 0.015 max.      |                                      |          |
| Cobalt               | Co % | 0.300 max.      |                                      | -        |
| Copper               | Cu % | 0.500 max.      | Mechanical Properties                |          |
| Aluminium            | Al % | 0.100 - 0.400   | Tensile Strength in Mpa              | 690 min. |
| Iron                 | Fe % | 1.500 max.      | Yield Strength in Mpa                | 310 min. |
| Nickel               | Ni % | Balance         | Elongation in %                      | 45 min.  |
| -                    | -    | -               | Reduction of Area in %               | -        |
| -                    | -    | -               | Hardness in BHN                      | -        |
| -                    | -    | -               | Impac <mark>t in Joule</mark>        | -        |

| Cross Reference Table |          |         |  |  |
|-----------------------|----------|---------|--|--|
| Material              | Standard | Country | Grade Belong to the Industry             |  |
| B 564 N06059          | ASTM     | USA     | Forging                                  |  |
| B 574 N06059 Grade 1  | ASTM     | USA     | Rod                                      |  |
| B 575 N06059          | ASTM     | USA     | Plate, Sheet and Strip                   |  |
| B 462 N06059          | ASTM     | USA     | Pipe Flanges, Forged Fittings, and Valve |  |
| B 619 N06059          | ASTM     | USA     | Pipe                                     |  |
| B 626 N06059          | ASTM     | USA     | Tube                                     |  |
| B 472 N06059          | ASTM     | USA     | Billets and Bars                         |  |

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

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