

# Material: ASME SB-619 N10242

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

**Group:** Non-Ferrous Nickel Alloys

**Sub Group:** ASME SB-619 N10242 Nickel and Nickel-Cobalt Alloy Pipe

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

**Grade Belongs to the Industry:** Pipe

| Chemical Composition |      |                 | Heat Treatment                       |          |
|----------------------|------|-----------------|--------------------------------------|----------|
| Carbon               | C %  | 0.030 max.      | As-Cast or Annealing or Age Hardning |          |
| Silicon              | Si % | 0.800 max.      |                                      |          |
| Manganese            | Mn % | 0.800 max.      |                                      |          |
| Copper               | Cu % | 0.500 max.      |                                      |          |
| Sulphur              | S %  | 0.015 max.      |                                      |          |
| Chromium             | Cr % | 7.000 - 9.000   |                                      |          |
| Phosphorus           | P %  | 0.030 max.      |                                      |          |
| Molybdenum           | Mo % | 24.000 - 26.000 |                                      |          |
| Cobalt               | Co % | 1.000 max.      | Mechanical Properties                |          |
| Aluminium            | Al % | 0.500 max.      | Tensile Strength in Mpa              | 725 min. |
| Boron                | B %  | 0.006 max.      | Yield Strength in Mpa                | 310 min. |
| Iron                 | Fe % | 2.000 max.      | Elongation in %                      | 40 min.  |
| Nickel               | Ni % | Balance         | Reduction of Area in %               | -        |
| -                    | -    | -               | Hardness in BHN                      | -        |
| -                    | -    | -               | Impact in Joule                      | -        |

| Cross Reference Table |          |         |                              |
|-----------------------|----------|---------|------------------------------|
| Material              | Standard | Country | Grade Belong to the Industry |
| B 434 N10242          | ASTM     | USA     | Plate, Sheet and Strip       |
| B 564 N10242          | ASTM     | USA     | Forging                      |
| B 573 N10242          | ASTM     | USA     | Rod                          |
| B 619 N10242          | ASTM     | USA     | Pipe                         |
| B 622 N10242          | ASTM     | USA     | Pipe and Tube                |
| B 626 N10242          | ASTM     | USA     | Tube                         |
| SB-573 N10242         | ASME     | USA     | Rod                          |

**Disclaimer:** All information displayed in our data sheets are for reference purpose only and are sole property of their respective owners. Information and or material are used for educational purposes only. Data at actual may vary at actual and case to case basis. ICAST Alloys LLP does not guarantee validity of these parameters. Warranties and liabilities are exclusive to our terms and conditions of business.

Customer Care: +91-99090 45075 Email: [info@icastllp.com](mailto:info@icastllp.com)