

Material: ASME SB-619 N06002

Standard Specification for Nickel and Nickel-Cobalt Alloy Pipe

Group: Non-Ferrous Nickel Alloys

Sub Group: ASME SB-619 N06002 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 % | 0.050 - 0.150 | As-Cast or Annealing or Age Hardning | |
| Silicon | Si % | 1.000 max. | | |
| Manganese | Mn % | 1.000 max. | | |
| Chromium | Cr % | 20.500 - 23.000 | | |
| Sulphur | S % | 0.030 max. | | |
| Molybdenum | Mo % | 8.000 - 10.000 | | |
| Phosphorus | P % | 0.040 max. | | |
| Cobalt | Co % | 0.500 - 2.500 | | |
| Iron | Fe % | 17.000 - 20.000 | | |
| Tungsten | W % | 0.200 - 1.000 | | |
| Nickel | Ni % | Balance | Mechanical Properties Tensile Strength in Mpa 690 min. Yield Strength in Mpa 276 min. Elongation in % 35 min. Reduction of Area in % - Hardness in BHN - Impact in Joule - | |
| - | - | - | | |
| - | - | - | | |
| - | - | - | | |
| - | - | - | | |
| - | - | - | | |

| Cross Reference Table | | | |
|-----------------------|----------|---------|------------------------------|
| Material | Standard | Country | Grade Belong to the Industry |
| B 619 N06002 | ASTM | USA | Pipe |
| B 622 N06002 | ASTM | USA | Pipe and Tube |
| B 626 N06002 | ASTM | USA | Tube |
| B 435 N06002 | ASTM | USA | Plate, Sheet and Strip |
| B 472 N06002 | ASTM | USA | Billets and Bars |
| B 572 N06002 | ASTM | USA | Rod |
| SB-622 N06002 | ASME | USA | Pipe and Tube |

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Customer Care: +91-99090 45075 Email: info@icastllp.com