



GRAVITY CAST PVT. LTD.
GRAVITY GROUP OF COMPANIES

Material - ASTM B 619 N06030

Standard Specification for Nickel and Nickel-Cobalt Alloy Pipe

Group - Non-Ferrous Nickel Alloys

Sub Group - ASTM B 619 N06030 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 % | 1.500 max. | | |
| Chromium | Cr % | 28.000 - 31.500 | | |
| Sulphur | S % | 0.020 max. | | |
| Molybdenum | Mo % | 4.000 - 6.000 | | |
| Phosphorus | P % | 0.040 max. | | |
| Nb + Ta | Nb% + Ta% | 0.300 - 1.500 | | |
| Tungsten | W % | 1.500 - 4.000 | | |
| Copper | Cu % | 1.000 - 2.400 | | |
| Cobalt | Co % | 5.000 max. | | |
| Iron | Fe % | 13.000 - 17.000 | | |
| Nickel | Ni % | Balance | | |
| - | - | - | | |
| - | - | - | | |

| Mechanical Properties | |
|-------------------------|----------|
| Tensile Strength in Mpa | 586 min. |
| Yield Strength in Mpa | 241 min. |
| Elongation in % | 30 min. |
| Reduction of Area in % | - |
| Hardness in BHN | - |
| Impact in Joule | - |

| Cross Reference Table | | | |
|-----------------------|----------|---------|---|
| Material | Standard | Country | Grade Belong to the Industry |
| B 581 N06030 | ASTM | USA | Rod |
| B 582 N06030 | ASTM | USA | Plate, Sheet and Strip |
| B 462 N06030 | ASTM | USA | Pipe Flanges, Forged Fittings and Valve |
| B 622 N06030 | ASTM | USA | Pipe and Tube |
| B 626 N06030 | ASTM | USA | Tube |
| B 472 N06030 | ASTM | USA | Billets and Bars |
| SB-581 N06030 | ASME | USA | Rod |

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

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