



Material - ASTM B983 N07718

Standard Specification for Precipitation Hardened or Cold Worked, Seamless Nickel Alloy Pipe and Tube

Group - Non-Ferrous Nickel Alloys

Sub Group - ASTM B983 N07718 Precipitation Hardened or Cold Worked, Seamless Nickel 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 % | 0.080 max. | | |
| Silicon | Si % | 0.350 max. | | |
| Manganese | Mn % | 0.350 max. | | |
| Chromium | Cr % | 17.000 - 21.000 | As-Cast or Annealing or Age Hardning | |
| Molybdenum | Mo % | 2.800 - 3.300 | | |
| Aluminium | Al % | 0.200 - 0.800 | | |
| Niobium | Nb % | 4.750 - 5.500 | | |
| Phosphorus | P % | 0.015 max. | | |
| Sulphur | S % | 0.015 max. | Mechanical Properties | |
| Boron | В % | 0.006 max. | Tensile Strength in Mpa | 1034 min. |
| Cobalt | Co % | 1.000 max. | Yield Strength in Mpa | 862 min. |
| Titanium | Ti % | 0.650 - 1.150 | Elongation in % | 20 min. |
| Nickel | Ni % | 50.000 - 55.000 | Reduction of Area in % | - |
| Copper | Cu % | 0.300 max. | Hardness in HRC | 40 min. |
| Iron | Fe % | Balance | Impact in Joule | - |

| Cross Reference Table | | | | |
|-----------------------|----------|---------|------------------------------------|--|
| Material | Standard | Country | try Grade Belong to the Industry | |
| Inconel 718 | SAE | USA | Tube | |
| N07718 | UNS | USA | Tube | |
| WL 2.4668 | DIN | Germany | Bars and Wire for Screws and Bolts | |
| B670 N07718 | ASTM | USA | Plate, Sheet and Strip | |
| B834 N07718 | ASTM | USA | Pipe Flange, Fitting and Valve | |
| B637 N07718 | ASTM | USA | Bar and Forging | |
| SB-637 N07718 | ASME | USA | Bar and Forging | |

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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