



Material - ASME SB-649 N08925

Standard Specification for Ni-Fe-Cr-Mo-Cu Low-Carbon Alloy Bar and Wire

Group - Non-Ferrous Nickel Alloys

Sub Group - ASME SB-649 N08925 Ni-Fe-Cr-Mo-Cu Low-Carbon Alloy Bar and Wire

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

Grade Belongs to the Industry - Bar and Wire

| Chemical Composition | | | Heat Treatment | |
|----------------------|------|-----------------|--|--|
| Carbon | C % | 0.020 max. | As-Cast or Annealing or Age Hardning | |
| Silicon | Si % | 0.500 max. | | |
| Manganese | Mn % | 1.000 max. | | |
| Chromium | Cr % | 19.000 - 21.000 | | |
| Sulphur | S % | 0.030 max. | | |
| Molybdenum | Mo % | 6.000 - 7.000 | | |
| Phosphorus | P % | 0.045 max. | | |
| Copper | Cu % | 0.800 - 1.500 | | |
| Nitrogen | N % | 0.100 - 0.200 | | |
| Nickel | Ni % | 24.000 - 26.000 | | |
| Iron | Fe % | Balance | Mechanical Properties Tensile Strength in Mpa 600 - 830 Yield Strength in Mpa 300 min. Elongation in % 40 min. Reduction of Area in % - Hardness in BHN - Impact in Joule - | |
| - | - | - | | |
| - | - | - | | |
| - | - | - | | |
| - | - | - | | |
| - | - | - | | |

| Cross Reference Table | | | |
|-----------------------|----------|---------|---|
| Material | Standard | Country | Grade Belong to the Industry |
| B 649 N08925 | ASTM | USA | Bar and Wire |
| A 182 F1925 | ASTM | USA | Pipe Flanges, Forged Fittings and Valve |
| B 625 N08925 | ASTM | USA | Plate, Sheet and Strip |
| B 673 N08925 | ASTM | USA | Pipe |
| B 674 N08925 | ASTM | USA | Tube |
| B 677 N08925 | ASTM | USA | Pipe and Tube |
| SB-625 N08925 | ASME | USA | Plate, Sheet and Strip |

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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