

Material: SAE SIMALLOY 625

Standard Specification for Nickel and Nickel-Related Alloys

Group: Non-Ferrous Nickel Alloys

Sub Group: SAE SIMALLOY 625 Nickel and Nickel-Related Alloys

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 % | 0.100 max. | As-Cast or Annealing or Age Hardning | |
| Silicon | Si % | 0.500 max. | | |
| Manganese | Mn % | 0.500 max. | | |
| Chromium | Cr % | 21.500 max. | | |
| Molybdenum | Mo % | 9.000 max. | | |
| Aluminium | Al % | 0.400 max. | | |
| Cobalt | Co % | 1.000 max. | | |
| Iron | Fe % | 5.000 max. | | |
| Titanium | Ti % | 0.400 max. | | |
| Ni + Co | Ni% + Co% | 68.000 min. | | |
| - | - | - | Mechanical Properties Tensile Strength in Mpa 724 - 1104 Yield Strength in Mpa 290 - 759 Elongation in % 30 - 65 Reduction of Area in % - Hardness in BHN 110 - 240 Impact in Joule - | |
| - | - | - | | |
| - | - | - | | |
| - | - | - | | |
| - | - | - | | |
| - | - | - | | |
| - | - | - | | |

| Cross Reference Table | | | |
|-----------------------|----------|---------|------------------------------|
| Material | Standard | Country | Grade Belong to the Industry |
| Inconel 625 | SAE | USA | Sheet, Strip and Plate |
| N06250 | UNS | USA | Sheet, Strip and Plate |
| B622 N06250 | ASTM | USA | Pipe and Tube |
| SB-622 N06250 | ASME | USA | Pipe and Tube |
| F3056 N06625 CLASS A | ASTM | USA | Pipe and Tube |
| F3056 N06625 CLASS B | ASTM | USA | Pipe and Tube |
| F3056 N06625 CLASS C | ASTM | USA | Pipe and Tube |

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