



GRAVITY CAST PVT. LTD.
GRAVITY GROUP OF COMPANIES

Material - ASTM F3056 N06625 CLASS C

Standard Specification for Additive Manufacturing Nickel Alloy

Group - Non-Ferrous Nickel Alloys

Sub Group - ASTM F3056 N06625 CLASS C Additive Manufacturing Nickel Alloy

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 % | 20.000 - 23.000 | | |
| Molybdenum | Mo % | 8.000 - 10.000 | | |
| Phosphorus | P % | 0.015 max. | | |
| Sulphur | S % | 0.015 max. | | |
| Titanium | Ti % | 0.400 max. | | |
| Cobalt | Co % | 1.000 max. | | |
| Aluminium | Al % | 0.400 max. | | |
| Iron | Fe % | 5.000 max. | Mechanical Properties | |
| Niobium | Nb % | 3.150 - 4.150 | Tensile Strength in Mpa | 485 min. |
| Nickel | Ni % | Balance | Yield Strength in Mpa | 275 min. |
| - | - | - | Elongation in % | 30 min. |
| - | - | - | Reduction of Area in % | 30 min. |
| - | - | - | Hardness in BHN | - |
| - | - | - | 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 |
| SIMALLOY 625 | SAE | USA | Pipe and Tube |

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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