



GRAVITY CAST PVT. LTD.
GRAVITY GROUP OF COMPANIES

Material - ASTM B 546 N08332

Standard Specification for Nickel-Iron-Chromium-Silicon Alloys Seamless Pipe

Group - Non-Ferrous Nickel Alloys

Sub Group - ASTM B 546 N08332 Nickel-Iron-Chromium-Silicon Alloys Seamless Pipe

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

Grade Belongs to the Industry - Pipe

| Chemical Composition | | | Heat Treatment | |
|-------------------------|------|-----------------|--------------------------------------|--|
| Carbon | C % | 0.050 - 0.100 | As-Cast or Annealing or Age Hardning | |
| Silicon | Si % | 0.750 - 1.500 | | |
| Manganese | Mn % | 2.000 max. | | |
| Chromium | Cr % | 17.000 - 20.000 | | |
| Sulphur | S % | 0.030 max. | | |
| Lead | Pb % | 0.005 max. | | |
| Phosphorus | P % | 0.030 max. | | |
| Copper | Cu % | 1.000 max. | | |
| Tin | Sn % | 0.025 max. | | |
| Nickel | Ni % | 34.000 - 37.000 | | |
| Iron | Fe % | Balance | | |
| - | - | - | | |
| - | - | - | | |
| - | - | - | | |
| - | - | - | | |
| - | - | - | | |
| Mechanical Properties | | | | |
| Tensile Strength in Mpa | | 462 min. | | |
| Yield Strength in Mpa | | 186 min. | | |
| Elongation in % | | 30 min. | | |
| Reduction of Area in % | | - | | |
| Hardness in HRB | | 65 - 88 | | |
| Impact in Joule | | - | | |

| Cross Reference Table | | | |
|-----------------------|----------|---------|------------------------------|
| Material | Standard | Country | Grade Belong to the Industry |
| B 511 N08332 | ASTM | USA | Bar and Shape |
| B 535 N08332 | ASTM | USA | Pipe and Tube |
| B 536 N08332 | ASTM | USA | Plate, Sheet and Strip |
| B 739 N08332 | ASTM | USA | Tube |
| SB-511 N08332 | ASME | USA | Bar and Shape |
| SB-535 N08332 | ASME | USA | Pipe and Tube |
| SB-536 N08332 | 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

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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