



Material - UNS J92604

Standard Specification for Casting Austenitic, for Pressure-Containing Parts

Group - Ferrous Stainless Steel Alloys

Sub Group - UNS J92604 Casting Austenitic, for Pressure-Containing Parts

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

Grade Belongs to the Industry - Casting

| Chemical Composition | | | Heat Treatment | |
|----------------------|------|-----------------|---|--|
| Carbon | C % | 0.070 - 0.110 | Solution Annealing | |
| Silicon | Si % | 0.700 max. | | |
| Manganese | Mn % | 3.000 - 5.000 | | |
| Phosphorus | P % | 0.040 max. | | |
| Sulphur | S % | 0.030 max. | | |
| Chromium | Cr % | 18.500 - 21.000 | | |
| Nickel | Ni % | 11.500 - 13.500 | | |
| Molybdenum | Mo % | 0.250 - 0.450 | | |
| Copper | Cu % | 0.500 max. | | |
| Nitrogen | N % | 0.200 - 0.300 | | |
| Iron | Fe % | Balance | Mechanical Properties Tensile Strength in Mpa 525 min. Yield Strength in Mpa 225 min. Elongation in % 20 min. Reduction of Area in % - Hardness in BHN - Impact in Joule - | |
| - | - | - | | |
| - | - | - | | |
| - | - | - | | |
| - | - | - | | |
| - | - | - | | |
| - | - | - | | |

| Cross Reference Table | | | |
|-----------------------|----------|---------|------------------------------|
| Material | Standard | Country | Grade Belong to the Industry |
| LH 19 N 14 G | PN | Poland | Casting |
| 1.4832 | DIN | Germany | Casting |
| 19 Cr12 Ni 4 Mn | Common | - | Casting |
| S30409 | UNS | USA | General Corrosive Service |
| A 297 HG10MnN | ASTM | USA | Casting |
| A743 HG10MnN | ASTM | USA | Casting |
| A351 HG10MnN | ASTM | USA | Casting |

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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