



GRAVITY CAST PVT. LTD.
GRAVITY GROUP OF COMPANIES

Material - Gravity Nimonic Alloy 115

Standard Specification for Seamless Nickel and Nickel Alloy Pipe, Tube, Sheet, Strip, Plate, Round Bar, Flat Bar, Forging Stock, Hexagon and Wire

Group - Non-Ferrous Nickel Alloys

Sub Group - Gravity Nimonic Alloy 115 Seamless Nickel and Nickel Alloy Pipe, Tube, Sheet, Strip, Plate, Round Bar, Flat Bar, Forging Stock, Hexagon and Wire

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

Grade Belongs to the Industry - Pipe, Tube, Sheet, Strip, Plate, Hexagon and Wire

| Chemical Composition | | | Heat Treatment | |
|----------------------|------|-----------------|--------------------------------------|-------------|
| Carbon | C % | 0.120 - 0.200 | As-Cast or Annealing or Age Hardning | |
| Silicon | Si % | 1.000 max. | | |
| Manganese | Mn % | 1.000 max. | | |
| Chromium | Cr % | 14.000 - 16.000 | | |
| Sulphur | S % | 0.015 max. | | |
| Molybdenum | Mo % | 3.000 - 5.000 | | |
| Cobalt | Co % | 13.000 - 15.500 | | |
| Copper | Cu % | 0.200 max. | | |
| Aluminium | Al % | 4.500 - 5.500 | | |
| Boron | B % | 0.010 - 0.025 | | |
| Titanium | Ti % | 3.500 - 4.500 | Mechanical Properties | |
| Lead | Pb % | 0.0015 max. | Tensile Strength in Mpa | 1240 - 1273 |
| Zirconium | Zr % | 0.150 max. | Yield Strength in Mpa | 865 - 870.4 |
| Iron | Fe % | 1.000 max. | Elongation in % | 27 - 27.6 |
| Nickel | Ni % | Balance | Reduction of Area in % | 34.25 |
| | | | Hardness in BHN | - |
| | | | Impact in Joule | - |

| Cross Reference Table | | | |
|-----------------------|----------|---------|---------------------------------|
| Material | Standard | Country | Grade Belong to the Industry |
| HR4 | BS | British | Billets, Bars and Forging Parts |
| - | - | - | - |
| - | - | - | - |
| - | - | - | - |
| - | - | - | - |
| - | - | - | - |
| - | - | - | - |

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.

ONE STOP SOLUTION FOR METAL PARTS