



Material - ISO GX4CrNiMo16-5-1

Standard Specification for Steel Castings for Pressure Purposes

Group - Ferrous Stainless Steel Alloys

Sub Group - ISO GX4CrNiMo16-5-1 Steel Castings for Pressure Purposes

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

Grade Belongs to the Industry - Casting

| Chemical Composition | | | Heat Treatment | |
|-------------------------|------|-----------------|------------------------------------------------|--|
| Carbon | C % | 0.060 max. | Normalizing or Quenching or Solution Annealing | |
| Silicon | Si % | 0.800 max. | | |
| Manganese | Mn % | 1.000 max. | | |
| Phosphorus | P % | 0.035 max. | | |
| Sulphur | S % | 0.025 max. | | |
| Chromium | Cr % | 15.000 - 17.000 | | |
| Molybdenum | Mo % | 0.700 - 1.500 | | |
| Nickel | Ni % | 4.000 - 6.000 | | |
| Copper | Cu % | 0.300 max. | | |
| Vanadium | V % | 0.080 max. | | |
| Iron | Fe % | Balance | | |
| - | - | - | | |
| - | - | - | | |
| - | - | - | | |
| - | - | - | | |
| - | - | - | | |
| Mechanical Properties | | | | |
| Tensile Strength in Mpa | | 760 - 960 | | |
| Yield Strength in Mpa | | 540 min. | | |
| Elongation in % | | 15 min. | | |
| Reduction of Area in % | | - | | |
| Hardness in BHN | | - | | |
| Impact in Joule | | 60 J @ RT | | |

| Cross Reference Table | | | |
|-----------------------|----------|----------------|------------------------------|
| Material | Standard | Country | Grade Belong to the Industry |
| GX4CrNiMo16-5-1 | BS | British | Plate, Tubes and Forging |
| 1.4405 | ISO | International | Casting |
| GX4CrNiMo16-5-1 | ONORM | Australia | Casting |
| GX4CrNiMo16-5-1 | NBN | Belgium | Casting |
| GX4CrNiMo16-5-1 | BDS | Bulgaria | Casting |
| GX4CrNiMo16-5-1 | CSN | Czech Republic | Casting |
| GX4CrNiMo16-5-1 | EN | European Union | 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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