

Material: DIN GX 4 CrNiMo 16-5-1

Standard Specification for Steel Castings for Pressure Purposes

Group: Ferrous Stainless Steel Alloys

Sub Group: DIN GX 4 CrNiMo 16-5-1 Steel Castings for Pressure Purposes

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

Grade Belongs to the Industry: Casting

| Chemical Composition | | |
|----------------------|------|-----------------|
| Carbon | C % | 0.060 max. |
| 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 |
| Vanadium | V % | 0.080 max. |
| Copper | Cu % | 0.300 max. |
| Iron | Fe % | Balance |
| - | - | - |
| - | - | - |
| - | - | - |
| - | - | - |

| Heat Treatment |
|---|
| Normalizing or Annealing or Hardening + Tempering |

| 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 |
| 1.4405 | EN | European Union | Casting |
| 1.4405 | DIN | Germany | Casting |
| 1.4405 | DIN | Germany | Casting |
| GX4CrNiMo16-5-1 | UNI | Italy | Casting |
| GX4CrNiMo16-5-1 | DIN | Germany | Casting |
| GX4CrNiMo16-5-1 | EN | European Union | Casting |
| GX4CrNiMo16-5-1 | AFNOR NF | France | Casting |

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Customer Care: +91-99090 45075 Email: info@icastllp.com



+91-99090 45075



info@icastllp.com



ICAST ALLOYS LLP, Plot 2527, Road H1, Kranti Gate, GIDC Metoda, Lodhika, Rajkot-360021, Gujarat, India