



Material - BS 10213 EN 1.4107

Standard Specification for Steel Castings for Pressure Purposes

Group - Ferrous Stainless Steel Alloys

Sub Group - BS 10213 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 % | 0.100 max. | Normalising or Annealing or Hardening + Tempering | |
| Silicon | Si % | 0.400 max. | | |
| Manganese | Mn % | 0.500 - 0.800 | | |
| Phosphorus | P % | 0.030 max. | | |
| Sulphur | S % | 0.020 max. | | |
| Chromium | Cr % | 11.500 - 12.500 | | |
| Nickel | Ni % | 0.800 - 1.500 | | |
| Molybdenum | Mo % | 0.500 max. | | |
| Copper | Cu % | 0.300 max. | | |
| Vanadium | V % | 0.080 max. | | |
| Iron | Fe % | Balance | Mechanical Properties Tensile Strength in Mpa 540 - 690 Yield Strength in Mpa 355 min. Elongation in % 18 min. Reduction of Area in % - Hardness in BHN - Impact in Joule 45 min. @ RT | |
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| Cross Reference Table | | | |
|-----------------------|----------|----------------|------------------------------|
| Material | Standard | Country | Grade Belong to the Industry |
| 1.4107 | BS | British | Casting |
| 1.4107 | DIN | Germany | Casting |
| GX8CrNi12 | UNI | Italy | Casting |
| GX8CrNi12 | ONORM | Australia | Casting |
| GX8CrNi12 | DIN | Germany | Casting |
| GX8CrNi12 | EN | European Union | Casting |
| GX8CrNi12 | AFNOR NF | France | 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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