



Material - BS 3100 Grade 316C12

Standard Specification for Steel Castings for General Engineering Purposes

Group - Ferrous Stainless Steel Alloys

Sub Group - BS 3100 Grade 316C12 Steel Castings for General Engineering Purposes

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

Grade Belongs to the Industry - Casting

| Chemical Composition | | | Heat Treatment | |
|----------------------|------|-----------------|--|----------|
| Carbon | C % | 0.030 max. | As Cast or Annealing or Normalizing or Hardening and Tempering | |
| Silicon | Si % | 1.500 max. | | |
| Manganese | Mn % | 2.000 max. | | |
| Phosphorus | P % | 0.040 max. | | |
| Sulphur | S % | 0.040 max. | | |
| Chromium | Cr % | 17.000 - 21.000 | | |
| Molybdenum | Mo % | 2.000 - 3.000 | | |
| Nickel | Ni % | 9.000 min. | | |
| Iron | Fe % | Balance | | |
| - | - | - | Mechanical Properties | |
| - | - | - | Tensile Strength in Mpa | 430 min. |
| - | - | - | Yield Strength in Mpa | 215 min. |
| - | - | - | Elongation in % | 26 min. |
| - | - | - | Reduction of Area in % | - |
| - | - | - | Hardness in BHN | - |
| - | - | - | Impact in Joule | - |

| Cross Reference Table | | | |
|-----------------------|----------|---------|------------------------------|
| Material | Standard | Country | Grade Belong to the Industry |
| 316C12LT196 | BS | British | Casting |
| Z 2 CND 18.12 M | 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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