



Material - BS 3100 Grade AL3

Standard Specification for Steel Castings for General Engineering Purposes

Group - Ferrous Mild Steel Alloys

Sub Group - BS 3100 Grade AL3 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 % | 0.250 max. | As Cast or Annealing or Normalizing or Hardening and Tempering | | | |
| Silicon | Si % | 0.600 max. | | | | |
| Manganese | Mn % | 1.200 max. | | | | |
| Phosphorus | P % | 0.040 max. | | | | |
| Sulphur | S % | 0.040 max. | | | | |
| Chromium | Cr % | 0.300 max. | | | | |
| Molybdenum | Mo % | 0.150 max. | | | | |
| Nickel | Ni % | 0.400 max. | | | | |
| Copper | Cu % | 0.300 max. | | | | |
| Other | Ot % | 0.800 max. | | | | |
| Iron | Fe % | Balance | Mechanical Properties | | | |
| - | - | - | | | Tensile Strength in Mpa | 485 - 655 |
| - | - | - | | | Yield Strength in Mpa | 275 min. |
| - | - | - | | | Elongation in % | 22 min. |
| - | - | - | | | Reduction of Area in % | - |
| - | - | - | | | Hardness in BHN | - |
| - | - | - | Impact in Joule | 27 J @ RT | | |

| Cross Reference Table | | | |
|-----------------------|----------|-----------|------------------------------|
| Material | Standard | Country | Grade Belong to the Industry |
| AL2 | BS | British | Casting |
| UC 14 | ONORM | Australia | Wire and Rod |
| 1.0625 | ONORM | Australia | Casting |
| GP 280 GH | ONORM | Australia | Casting |
| 1.0625 | NBN | Belgium | Casting |
| GP 280 GH | NBN | Belgium | Casting |
| 1.0625 | BDS | Bulgaria | 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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