



Material - ASTM A 1040 1015

Standard Specification for Steel Castings for General Engineering Purposes

Group - Ferrous Mild Steel Alloys

Sub Group - ASTM A 1040 1015 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 % | 0.130 - 0.180 | As Cast or Annealing or Normalizing or Hardening and Tempering | |
| Manganese | Mn % | 0.300 - 0.600 | | |
| Phosphorus | P % | 0.030 max. | | |
| Sulphur | S % | 0.035 max. | | |
| Copper | Cu % | 0.200 max. | | |
| Boron | B % | 0.0005 - 0.0030 | | |
| Iron | Fe % | Balance | | |
| - | - | - | | |
| - | - | - | Mechanical Properties | |
| - | - | - | Tensile Strength in Mpa | 310 - 655 |
| - | - | - | Yield Strength in Mpa | 190 min. |
| - | - | - | Elongation in % | 5 min. |
| - | - | - | Reduction of Area in % | 40 - 50 |
| - | - | - | Hardness in BHN | 241 max. |
| - | - | - | Impact in Joule | - |

| Cross Reference Table | | | |
|-----------------------|----------|---------|------------------------------|
| Material | Standard | Country | Grade Belong to the Industry |
| AW1 | BS | British | Casting |
| 1015 | SAE | USA | Casting |
| 1015 | AISI | USA | Casting |
| A 108 Grade 1015 | ASTM | USA | Casting |
| A 29 1015 | ASTM | USA | Casting |
| A 510 1015 | ASTM | USA | Casting |
| A 512 Grade 1015 | ASTM | USA | 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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