



Material - UNS J03000

Standard Specification for Carbon Steel Casting

Group - Ferrous Mild Steel Alloys

Sub Group - UNS J03000 Carbon Steel Casting

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

Grade Belongs to the Industry - Casting

| Chemical Composition | | | Heat Treatment | |
|----------------------|------|------------|---|----------|
| Carbon | C % | 0.300 max. | Normalising or Annealing or Hardening + Tempering | |
| Silicon | Si % | 0.800 max. | | |
| Manganese | Mn % | 0.600 max. | | |
| Phosphorus | P % | 0.050 max. | | |
| Sulphur | S % | 0.060 max. | | |
| Iron | Fe % | Balance | | |
| - | - | - | | |
| - | - | - | | |
| - | - | - | Mechanical Properties | |
| - | - | - | Tensile Strength in Mpa | 415 min. |
| - | - | - | Yield Strength in Mpa | 205 min. |
| - | - | - | Elongation in % | 24 min. |
| - | - | - | Reduction of Area in % | 35 min. |
| - | - | - | Hardness in BHN | - |
| - | - | - | Impact in Joule | - |

| Cross Reference Table | | | |
|-----------------------|----------|---------|------------------------------|
| Material | Standard | Country | Grade Belong to the Industry |
| A27 Grade N-1 | ASTM | USA | Casting |
| A27 Grade U-60-30 | ASTM | USA | Casting |
| A27 Grade 60-30 | ASTM | USA | Casting |
| A27 Grade 65-35 | ASTM | USA | Casting |
| A27 Grade 70-36 | ASTM | USA | Casting |
| A27 Grade 70-40 | ASTM | USA | Casting |
| A27 Grade N-2 | 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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