



GRAVITY CAST PVT. LTD.
GRAVITY GROUP OF COMPANIES

Material - UNS J03502

Standard Specification for Carbon Steel Casting

Group - Ferrous Mild Steel Alloys

Sub Group - UNS J0350 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 % | 0.350 max. | Normalising or Annealing or Hardening + Tempering | |
| Silicon | Si % | 0.060 max. | | |
| Manganese | Mn % | 0.700 max. | | |
| Phosphorus | P % | 0.035 max. | | |
| Sulphur | S % | 0.030 max. | | |
| Iron | Fe % | Balance | | |
| - | - | - | | |
| - | - | - | Mechanical Properties Tensile Strength in Mpa 485 min. Yield Strength in Mpa 250 min. Elongation in % 20 min. Reduction of Area in % 35 min. Hardness in BHN - Impact in Joule - | |
| - | - | - | | |
| - | - | - | | |
| - | - | - | | |
| - | - | - | | |
| - | - | - | | |
| - | - | - | | |
| - | - | - | | |
| - | - | - | | |

| Cross Reference Table | | | |
|-----------------------|----------|---------|-------------------------------------|
| Material | Standard | Country | Grade Belong to the Industry |
| SA 216 WCB | ASME | USA | Casting |
| A757 A1Q | ASTM | USA | Casting |
| J03002 | UNS | USA | Casting |
| 1.0619 | DIN | Germany | Casting |
| A356 1 | ASTM | USA | Casting |
| A660 WCB | ASTM | USA | Fusion Welding, Bending and Forming |
| SA 660 WCB | ASME | USA | Centrifugal 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

All information in our data sheets and website is indicative only and is not intended to be a substitute for the full specification from which it is extracted. It is intended to provide typical values to allow comparison between metal alloy option rather than a definitive statement of mechanical performance or suitability for a particular application as these will vary with temperature, product type and product application. It is presented apart from contractual obligations and does not constitute any guarantee of properties or of processing or application possibilities in individual cases. Our warranties and liabilities are stated exclusively in our terms of business.

ONE STOP SOLUTION FOR METAL PARTS