



GRAVITY CAST PVT. LTD.
GRAVITY GROUP OF COMPANIES

Material - ASTM A757 Grade C1Q

Standard Specification for Steel Castings, Ferritic and Martensitic, for Pressure-Containing and Other Applications, for Low-Temperature Service

Group - Ferrous Mild Steel Alloys

Sub Group - ASTM A757 / A757M Steel Castings, Ferritic and Martensitic, for Pressure-Containing and Other Applications, for Low-Temperature Service

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. | Normalising or Annealing or Hardening + Tempering | |
| Silicon | Si % | 0.600 max. | | |
| Manganese | Mn % | 1.200 max. | | |
| Phosphorus | P % | 0.025 max. | | |
| Sulphur | S % | 0.025 max. | | |
| Chromium | Cr % | 0.400 max. | | |
| Nickel | Ni % | 1.500 - 2.000 | | |
| Molybdenum | Mo % | 0.150 - 0.300 | | |
| Vanadium | V % | 0.030 max. | | |
| Copper | Cu % | 0.500 max. | | |
| Other | Ot % | 1.000 max. | | |
| Iron | Fe % | Balance | | |
| - | - | - | | |
| - | - | - | | |
| - | - | - | | |
| - | - | - | | |

| Cross Reference Table | | | |
|-----------------------|----------|---------|------------------------------|
| Material | Standard | Country | Grade Belong to the Industry |
| 4615 | SAE | USA | Bar |
| 4617 | AISI | USA | Steel |
| 4617 | SAE | USA | Bar, Steel and Forging |
| 4620 | SAE | USA | Steel |
| 4615 | AISI | USA | Steel |
| 4620 | AISI | USA | Steel |
| J12582 | UNS | 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

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