GRAVITY CAST PVT. LTD.
GRAVITY GROUP OF COMPANIES

# Material - ASME SA-660 Grade WCC

## Standard Specification for Centrifugally Cast Carbon Steel Pipe for High-Temperature Service

**Group - Ferrous Mild Steel Alloys**
**Sub Group - ASME SA-660 Grade WCC Centrifugally Cast Carbon Steel Pipe for High-Temperature Service**
**Application - Intended for Valve, Pump, General Engineering, Automotive and other Industries**
**Grade Belongs to the Industry - Steel and Pipe**

| Chemical Composition | | |
|---|---|---|
| Carbon | C % | 0.250 max. |
| Manganese | Mn % | 1.200 max. |
| Phosphorus | P % | 0.035 max. |
| Sulphur | S % | 0.035 max. |
| Silicon | Si % | 0.600 max. |
| Iron | Fe % | Balance |
| - | - | - |
| - | - | - |
| - | - | - |
| - | - | - |
| - | - | - |
| - | - | - |
| - | - | - |
| - | - | - |

| Heat Treatment |
|---|
| Annealing or Normalizing or Normalizing & Tempering or Quenching & Tempering |

| Mechanical Properties | |
|---|---|
| Tensile Strength in Mpa | 483 min. |
| Yield Strength in Mpa | 276 min. |
| Elongation in % | 22 min. |
| Reduction of Area in % | 35 min. |
| Hardness in HB | - |
| Impact in Joule | - |

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| Cross Reference Table | | | |
|---|---|---|---|
| **Material** | **Standard** | **Country** | **Grade Belong to the Industry** |
| J02505 | UNS | USA | Steel |
| SA-216 WCC | ASME | USA | Casting |
| A 660 Grade WCC | ASTM | USA | Casting |
| A 216 WCB | ASTM | USA | Casting |
| A 216 WCC | ASTM | USA | Casting |
| 10132-2 1.0619 | EN | European Union | Casting |
| 10132-2 1.0619 | DIN | Germany | 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.