

Material: ASME SA 660 Grade WCB

Standard Specification for Carbon Steel Pipe Made by The Centrifugal Casting Process Intended for Use in High-Temperature, High-Pressure Service

Group: *Ferrous Mild Steel Alloys*

Sub Group: *ASME SA 660 Grade WCB Carbon Steel Pipe Made by The Centrifugal Casting Process Intended for Use in High-Temperature, High-Pressure Service*

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

Grade Belongs to the Industry: *Centrifugal Casting*

| Chemical Composition | | | Heat Treatment | |
|----------------------|------|------------|---|----------|
| Carbon | C % | 0.300 max. | Normalizing or Annealing or Hardening + Tempering | |
| Silicon | Si % | 0.600 max. | | |
| Manganese | Mn % | 1.000 max. | | |
| Phosphorus | P % | 0.035 max. | | |
| Sulphur | S % | 0.035 max. | | |
| Iron | Fe % | Balance | | |
| - | - | - | | |
| - | - | - | | |
| - | - | - | | |
| - | - | - | | |
| | | | Mechanical Properties | |
| - | - | - | Tensile Strength in Mpa | 483 min. |
| - | - | - | Yield Strength in Mpa | 248 min. |
| - | - | - | Elongation in % | 22 min. |
| - | - | - | Reduction of Area in % | 35 min. |
| - | - | - | Hardness in BHN | - |
| - | - | - | Impact in Joule | - |

| Cross Reference Table | | | |
|-----------------------|----------|----------------|-------------------------------------|
| Material | Standard | Country | Grade Belong to the Industry |
| A757 A 1 Q | ASTM | USA | Casting |
| J03002 | UNS | USA | Casting |
| 1.0619 | DIN | Germany | Casting |
| 1.0619 | EN | European Union | Casting |
| A 660 WCB | ASTM | USA | Fusion Welding, Bending and Forming |
| SA 216 WCB | ASME | USA | Casting |
| A216 WCB | ASTM | USA | Casting |

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