

# 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		
Carbon	C %	0.300 max.
Silicon	Si %	0.600 max.
Manganese	Mn %	1.000 max.
Phosphorus	P %	0.035 max.
Sulphur	S %	0.035 max.
Iron	Fe %	Balance
-	-	-
-	-	-
-	-	-
-	-	-
-	-	-
-	-	-
-	-	-
-	-	-
-	-	-
-	-	-
-	-	-

Heat Treatment
Normalizing or Annealing or Hardening + Tempering

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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Customer Care: +91-99090 45075 Email: [info@icastllp.com](mailto:info@icastllp.com)



+91-99090 45075



[info@icastllp.com](mailto:info@icastllp.com)



ICAST ALLOYS LLP, Plot 2527, Road H1, Kranti Gate, GIDC Metoda, Lodhika, Rajkot-360021, Gujarat, India