Material: ASME SA 216 WCB

Standard Specification for Carbon Steel Castings Suitable for Fusion for High Temperature Service

Group: *Ferrous Mild Steel Alloys*
Sub Group: *ASME SA 216 WCB Carbon Steel Castings Suitable for Fusion for High Temperature Service*
Application: *Intended for Valve, Pump, General Engineering, Automotive and Other Industries*
Grade Belongs to the Industry: *Casting*

Chemical Composition		
Carbon	C %	0.300 max.
Silicon	Si %	0.600 max.
Manganese	Mn %	1.000 max.
Phosphorus	P %	0.040 max.
Sulphur	S %	0.045 max.
Chromium	Cr %	0.500 max.
Nickel	Ni %	0.500 max.
Molybdenum	Mo %	0.200 max.
Vanadium	V %	0.300 max.
Copper	Cu %	0.500
Iron	Fe %	Balance
-	-	-
-	-	-
-	-	-
-	-	-

Heat Treatment
Normalizing or Annealing or Hardening + Tempering/T >= 595 C

Mechanical Properties	
Tensile Strength in Mpa	485 - 655
Yield Strength in Mpa	250 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-660 WCB	ASME	USA	Centrifugal Casting
A216 WCB	ASTM	USA	Casting

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