

Material - ASME SA 216 Grade WCC

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

Group - Ferrous Mild Steel Alloys

Sub Group - ASME SA 216 Grade WCC 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			Heat Treatment	
Carbon	C %	0.250 max.		
Silicon	Si %	0.600 max.		
Manganese	Mn %	1.200 max.	Normalising or Annealing or Hardening + Tempering	
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 %	0.030 max.	Mechanical Properties	
Copper	Cu %	0.500 max.	Tensile Strength in Mpa	485- 655
Iron	Fe %	Balance	Yield Strength in Mpa	275 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		
A660 WCA	ASTM	USA	Fusion Welding, Bending and Forming		
SA 660 WCC	ASME	USA	Centrifugal Casting		
J02503	UNS	USA	Casting		
1.0619	EN	European Union	Casting		
1.0619	DIN	Germany	Casting		
A216 WCB	ASTM	USA	Casting		
A216 WCC	ASTM	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

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