

Material: ASTM A216 WCA

Standard Specification for Steel Castings, Carbon, Suitable for Fusion Welding, for High-Temperature Service

Group: Ferrous Mild Steel Alloys

Sub Group: ASTM A216 / A216M Steel Castings, Carbon, Suitable for Fusion Welding, 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.	Normalizing or Annealing or Hardening + Tempering	
Silicon	Si %	0.600 max.		
Manganese	Mn %	0.700 max.		
Phosphorus	P %	0.035 max.		
Sulphur	S %	0.035 max.		
Chromium	Cr %	0.500 max.		
Nickel	Ni %	0.500 max.		
Molybdenum	Mo %	0.200 max.		
Copper	Cu %	0.300 max.		
Vanadium	V %	0.030 max.		
other	Ot %	1.000 max.	Mechanical Properties Tensile Strength in Mpa 415 - 585 Yield Strength in Mpa 205 min. Elongation in % 24 min. Reduction of Area in % 35 min. Hardness in BHN - Impact in Joule -	
Iron	Fe %	Balance		
-	-	-		
-	-	-		
-	-	-		

Cross Reference Table			
Material	Standard	Country	Grade Belong to the Industry
SA 216 WCA	ASME	USA	Casting
A660 WCA	ASTM	USA	Fusion Welding, Bending and Forming
J02502	UNS	USA	Casting
A216 WCB	ASTM	USA	Casting
SA 216 WCB	ASME	USA	Casting
1.0619	EN	European Union	Casting
1.0619	WN	Germany	Casting

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