

Material: ASME SA 216 Grade WCA

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

Group: Ferrous Mild Steel Alloys

Sub Group: ASME SA 216 Grade WCA 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.	Normalizing or Annealing or Hardening + Tempering	
Silicon	Si %	0.600 max.		
Manganese	Mn %	0.700 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 %	0.030 max.		
Copper	Cu %	0.500		
Iron	Fe %	Balance	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	-

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

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