

Material: UNS J02502

Standard Specification for Carbon Steel Casting

Group: Ferrous Mild Steel Alloys

Sub Group: UNS J02502 Carbon Steel Casting

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 %	0.400		
Nickel	Ni %	0.500 max.		
Molybdenum	Mo %	0.200 max.		
Vanadium	V %	0.030 max.		
Copper	Cu %	0.500 max.		
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 -	
-	-	-		
-	-	-		
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-	-	-		
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Cross Reference Table			
Material	Standard	Country	Grade Belong to the Industry
A660 WCA	ASTM	USA	Fusion Welding, Bending and Forming
SA 216 WCA	ASME	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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Customer Care: +91-99090 45075 Email: info@icastllp.com