



Material - UNS J02502

Grade Belongs to the Industry - Casting

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

Chemical Composition			Heat Treatment	
Carbon	C %	0.250 max.		
Silicon	Si %	0.600 max.		
Manganese	Mn %	0.700 max.		
Phosphorus	P %	0.035 max.	Normalising or Annealing or Hardening + Tempering	
Sulphur	S %	0.035 max.		
Chromium	Cr %	0.400		
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	415 - 585
Iron	Fe %	Balance	Yield Strength in Mpa	205 min.
-	-	-	Elongation in %	24 min.
-	-	-	Reduction of Area in %	35 min.
-	-	-	Hardness in BHN	-

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		

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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