Material - UNS J02503

Standard Specification for Carbon Steel Casting

Group - Ferrous Mild Steel Alloys

Sub Group - UNS J02503 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.	Normalising or Annealing or Hardening + Tempering		
Silicon	Si %	0.600 max.			
Manganese	Mn %	1.200 max.			
Phosphorus	P %	0.035 max.			
Sulphur	S %	0.035 max.			
Chromium	Cr %	0.300 max (Cr+Cu+Mo)			
Nickel	Ni %	0.500 max.			
Molybdenum	Mo %	0.200 max.			
Vanadium	V %	0.030 max.	Mechanical Properties		
Copper	Cu %	0.300 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
SA 216 WCC	ASME	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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