



Material - UNS J03002

Standard Specification for Carbon Steel Casting

Group - Ferrous Mild Steel Alloys

Sub Group - UNS J03002 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 %	0.300 max.	Normalising or Annealing or Hardening + Tempering			
Silicon	Si %	0.600 max.				
Manganese	Mn %	1.000 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.				
Vanadium	V %	0.030 max.				
Copper	Cu %	0.300 max.				
Iron	Fe %	Balance	<th colspan="2">Mechanical Properties</th>		Mechanical Properties	
-	-	-	Tensile Strength in Mpa	485 min.		
-	-	-	Yield Strength in Mpa	250 min.		
-	-	-	Elongation in %	22 min.		
-	-	-	Reduction of Area in %	-		
-	-	-	Hardness in BHN	-		
-	-	-	Impact in Joule	-		

Cross Reference Table			
Material	Standard	Country	Grade Belong to the Industry
A757 A 1 Q	ASTM	USA	Casting
SA 216 WCB	ASME	USA	Casting
1.0619	DIN	Germany	Casting
1.0619	EN	European Union	Casting
A 660 WCB	ASTM	USA	Fusion Welding, Bending and Forming
SA-660 WCB	ASME	USA	Centrifugal Casting
A216 WCB	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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