



Material - ASTM A1001 Grade 1

Standard Specification for High Strength Steel Castings in Heavy Sections

Group - Ferrous Mild Steel Alloys

Sub Group - ASTM A1001 High Strength Steel Castings in Heavy Sections

Application - Intended for Valve, Pump, General Engineering, Automotive and Other Industries

Grade Belongs to the Industry - Casting

Chemical Composition			Heat Treatment	
Carbon	C %	0.350 max.	Normalising or Annealing or Hardening + Tempering	
Phosphorus	P %	0.020 max.		
Sulphur	S %	0.015 max.		
Aluminium	Al %	0.060 max.		
Iron	Fe %	Balance		
-	-	-		
-	-	-		
-	-	-		
-	-	-		
-	-	-		
			Mechanical Properties	
			Tensile Strength in Mpa	690 min.
			Yield Strength in Mpa	550 min.
			Elongation in %	15 min.
			Reduction of Area in %	-
			Hardness in BHN	-
			Impact in Joule	20 min. @ -40°C

Cross Reference Table			
Material	Standard	Country	Grade Belong to the Industry
SA 216 WCB	ASME	USA	Casting
A757 A1Q	ASTM	USA	Casting
J03002	UNS	USA	Casting
1.0619	DIN	Germany	Casting
1.0619	EN	European Union	Casting
A660 WCB	ASTM	USA	Fusion Welding, Bending and Forming
SA 660 WCB	ASME	USA	Centrifugal 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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