

# Material: ASTM A1001 Grade 7 Class C

## 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	
-	-	-	Annealing or Hardening + Tempering	
-	-	-		
-	-	-		
-	-	-		
-	-	-		
-	-	-		
-	-	-		
-	-	-		
-	-	-		
-	-	-		
			Mechanical Properties	
-	-	-	Tensile Strength in Mpa	620 min.
-	-	-	Yield Strength in Mpa	485 min.
-	-	-	Elongation in %	21 min.
-	-	-	Reduction of Area in %	42 min.
-	-	-	Hardness in BHN	-
-	-	-	Impact in Joule	34 min. @ RT

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

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