

## Material: ASTM A356 2

### Standard Specification for Steel Castings, Carbon, Low Alloy, and Stainless Steel, Heavy-Walled for Steam Turbines

**Group:** Ferrous Mild Steel Alloys

**Sub Group:** ASTM A356 / A356M Carbon, Low Alloy, and Stainless Steel, Heavy-Walled for Steam Turbines

**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 %	0.700 max.		
Phosphorus	P %	0.035 max.		
Sulphur	S %	0.030 max.		
Molybdenum	Mo %	0.450 - 0.650		
Iron	Fe %	Balance		
-	-	-		
-	-	-	<b>Mechanical Properties</b> Tensile Strength in Mpa 450 min. Yield Strength in Mpa 240 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
J12523	UNS	USA	Casting
1.8872	DIN	Germany	Steel
16Mo5	STAS	Romania	Plate
245	BS	British	Casting
C1	MSZ	Hungary	Steel
FS12MD4	AFNOR NF	France	Wire, Rod and Coil
G18Mo5	UNI	Italy	Casting

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