

## Material: SAE 4330

### Standard Specification for Alloy Steel Casting

**Group:** Ferrous Mild Steel Alloys

**Sub Group:** SAE 4330 Alloy Steel Casting

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

**Grade Belongs to the Industry:** Bar, Tube, Sheet, Strip and Forging

Chemical Composition			Heat Treatment	
Carbon	C %	0.200 - 0.300	Annealing or Normalizing or Hardening + Tempering	
Silicon	Si %	0.080 max.		
Manganese	Mn %	1.000 max.		
Phosphorus	P %	0.250 max.		
Sulphur	S %	0.250 max.		
Chromium	Cr %	0.400 - 0.600		
Nickel	Ni %	1.000 - 1.500		
Molybdenum	Mo %	0.300 - 0.500		
Iron	Fe %	Balance	Mechanical Properties	
-	-	-	Tensile Strength in Mpa	860 min.
-	-	-	Yield Strength in Mpa	690 min.
-	-	-	Elongation in %	15 min.
-	-	-	Reduction of Area in %	-
-	-	-	Hardness in HB	285
-	-	-	Impact in Joule	-

Cross Reference Table			
Material	Standard	Country	Grade Belong to the Industry
J23055	UNS	USA	Casting
4330	AISI	USA	Forging, Bar, Wire, and Shape
4340	AMS	USA	Bar and Forging
A732 9Q	ASTM	USA	Casting
J23015	UNS	USA	Casting
A487 10A	ASTM	USA	Casting
SA 487 10A	ASME	USA	Casting

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