

# Material: SAE 8625

## Standard Specification for Alloy Steel Casting

**Group:** Ferrous Mild Steel Alloys

**Sub Group:** SAE 8625 Alloy Steel Casting, Bar, Wire, Tube and Forging

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

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

Chemical Composition		
Carbon	C %	0.230 - 0.280
Silicon	Si %	0.150 - 0.350
Manganese	Mn %	0.700 - 0.900
Phosphorus	P %	0.030 max.
Sulphur	S %	0.040 max.
Chromium	Cr %	0.400 - 0.600
Molybdenum	Mo %	0.150 - 0.250
Nickel	Ni %	0.400 - 0.700
Copper	Cu %	0.350 max.
Lead	Pb%	0.150 - 0.350
Iron	Fe %	Balance
-	-	-
-	-	-
-	-	-
-	-	-

Heat Treatment
As- Cast or Normalizing or Annealing or Hardening + Tempering

Mechanical Properties	
Tensile Strength in Mpa	-
Yield Strength in Mpa	-
Elongation in %	-
Reduction of Area in %	-
Hardness in BHN	179 - 223
Impact in Joule	-

Cross Reference Table			
Material	Standard	Country	Grade Belong to the Industry
A915 Grade SC 8625	UNS	USA	Casting
J12595	UNS	USA	Bar, Wire, Tube and Forging
A 29 8625	ASTM	USA	Bar, Wire, Tube and Forging
A 505 8625	ASTM	USA	Bar, Wire, Tube and Forging
8625	AISI	USA	Bar, Wire, Tube and Forging
8625	AMS	USA	Bar, Wire, Tube and Forging
8625	AS	Australia	Bar, Wire, Tube and Forging

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