

Material: SAE 4617

Standard Specification for Former Sae Standard and Former Sae Ex-Steels

Group: Ferrous Mild Steel Alloys

Sub Group: SAE 4617 Former Sae Standard and Former Sae Ex-Steels

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

Grade Belongs to the Industry: Bar, Steel and Forging

Chemical Composition		
Carbon	C %	0.150 - 0.200
Silicon	Si %	0.150 - 0.350
Manganese	Mn %	0.450 - 0.650
Phosphorus	P %	0.025 max.
Sulphur	S %	0.025 max.
Nickel	Ni %	1.650 - 2.000
Molybdenum	Mo %	0.200 - 0.300
Chromium	Cr %	0.200 max.
Copper	Cu %	0.350 max.
Vanadium	V %	0.020 - 0.080
Niobium	Nb %	0.020 - 0.050
Aluminium	Al %	0.020 - 0.050
Iron	Fe %	Balance
-	-	-
-	-	-

Heat Treatment
Normalizing or Annealing or Hardening + Tempering

Mechanical Properties	
Tensile Strength in Mpa	860 min.
Yield Strength in Mpa	-
Elongation in %	-
Reduction of Area in %	-
Hardness in HB	174 - 241
Impact in Joule	0

Cross Reference Table			
Material	Standard	Country	Grade Belong to the Industry
4615.0000	SAE	USA	Steel
4617.0000	AISI	USA	Bar, Steel and Forging
4620.0000	SAE	USA	Steel
4615.0000	AISI	USA	Steel
4620.0000	AISI	USA	Steel
A757 C1Q	ASTM	USA	Casting
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