

Material: SAE 4615

Standard Specification for Estimated mechanical properties and machinability of steel bars

Group: Ferrous Mild Steel Alloys

Sub Group: SAE 4615 Estimated mechanical properties and machinability of steel bars

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

Grade Belongs to the Industry: Bar

Chemical Composition			Heat Treatment	
Carbon	C %	0.110 - 0.170	Normalizing or Annealing or Hardening + Tempering	
Silicon	Si %	0.150 - 0.350		
Manganese	Mn %	0.450 - 0.650		
Phosphorus	P %	0.025 max.		
Sulphur	S %	0.025 max.		
Chromium	Cr %	0.200 max.		
Nickel	Ni %	1.650 - 2.000		
Molybdenum	Mo %	0.200 - 0.300		
Copper	Cu %	0.350 max.	Mechanical Properties	
Iron	Fe %	Balance	Tensile Strength in Mpa	862 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
4617.0000	AISI	USA	Steel
4617	SAE	USA	Bar, Steel and Forging
4620	SAE	USA	Steel
4615	AISI	USA	Steel
4620	AISI	USA	Steel
A757 C1Q	ASTM	USA	Casting
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