

Material: SAE 4620

Standard Specification for General characteristics and heat treatments of steels

Group: Ferrous Mild Steel Alloys

Sub Group: SAE 4620 General characteristics and heat treatments of steels

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

Grade Belongs to the Industry: Steel

Chemical Composition			Heat Treatment	
Carbon	C %	0.170 - 0.220	Normalizing or Annealing or Hardening + Tempering	
Silicon	Si %	0.150 - 0.350		
Manganese	Mn %	0.450 - 0.650		
Phosphorus	P %	0.030 max.		
Sulphur	S %	0.040 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	-
-	-	-	Yield Strength in Mpa	896 min.
-	-	-	Elongation in %	-
-	-	-	Reduction of Area in %	-
-	-	-	Hardness in HB	183 - 241
-	-	-	Impact in Joule	45.1 - 155.1 J @ RT

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