

Material: AMS 4620

Standard Specification for Structural and Constructional Steels

Group: Ferrous Mild Steel Alloys

Sub Group: AMS 4620 Structural and Constructional Steels

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

Grade Belongs to the Industry: Bar and Forging

Chemical Composition			Heat Treatment	
Carbon	C %	0.170 - 0.220	Annealing or Normalizing or Hardening + Tempering	
Silicon	Si %	0.150 - 0.350		
Manganese	Mn %	0.450 - 0.650		
Phosphorus	P %	0.035 max.		
Sulphur	S %	0.040 max.		
Nickel	Ni %	1.650 - 2.000		
Molybdenum	Mo %	0.200 - 0.300		
Copper	Cu %	0.500 max.	Mechanical Properties Tensile Strength in Mpa 827 min. Yield Strength in Mpa 689 min. Elongation in % 10 min. Reduction of Area in % - Hardness in BHN - Impact in Joule -	
Tungsten	W %	0.100 max.		
other	Ot %	1.000 max.		
Iron	Fe %	Balance		
-	-	-		
-	-	-		
-	-	-		
-	-	-		

Cross Reference Table			
Material	Standard	Country	Grade Belong to the Industry
J12094	UNS	USA	Casting
6150	SAE	USA	Bar, Tube, Sheet, Strip and Forging
4620	AISI	USA	Forging, Bar, Wire, and Shape
A732 11Q	AISI	USA	Casting
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-	-	-	-
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