

## 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.	<b>Mechanical Properties</b>			
Tungsten	W %	0.100 max.				
other	Ot %	1.000 max.			Tensile Strength in Mpa	827 min.
Iron	Fe %	Balance			Yield Strength in Mpa	689 min.
-	-	-			Elongation in %	10 min.
-	-	-			Reduction of Area in %	-
-	-	-			Hardness in BHN	-
-	-	-	Impact in Joule	-		

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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