

# Material: AISI 4620

## Standard Specification for Structural and Constructional Steels

**Group:** Ferrous Mild Steel Alloys

**Sub Group:** AISI 4620 Structural and Constructional Steels

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

**Grade Belongs to the Industry:** Forging, Bar, Wire and Shape

Chemical Composition		
Carbon	C %	0.170 - 0.220
Silicon	Si %	0.150 - 0.350
Manganese	Mn %	0.450 - 0.650
Phosphorus	P %	0.035 max.
Sulphur	S %	0.040 max.
Chromium	Cr %	0.350 max.
Nickel	Ni %	1.650 - 2.000
Molybdenum	Mo %	0.200 - 0.300
Copper	Cu %	0.500 max.
Tungsten	W %	0.100 max.
other	Ot %	1.000 max.
Iron	Fe %	Balance
-	-	-
-	-	-
-	-	-

Heat Treatment
Annealing or Normalizing or Hardening + Tempering

Mechanical Properties	
Tensile Strength in Mpa	480 - 965
Yield Strength in Mpa	-
Elongation in %	-
Reduction of Area in %	-
Hardness in HB	183 - 241
Impact in Joule	45.1 - 155.4 J @ RT

Cross Reference Table			
Material	Standard	Country	Grade Belong to the Industry
J12094	UNS	USA	Casting
4620.0000	SAE	USA	Bar, Tube, Sheet, Strip and Forging
4620.0000	AMS	USA	Bar and Forging
A732 11Q	AISI	USA	Casting
-	-	-	-
-	-	-	-
-	-	-	-

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