

Material: AISI 4620

Standard Specification for Structural and Construction 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			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.		
Chromium	Cr %	0.350 max.		
Nickel	Ni %	1.650 - 2.000		
Molybdenum	Mo %	0.200 - 0.300		
Copper	Cu %	0.500 max.	Mechanical Properties	
Tungsten	W %	0.100 max.	Tensile Strength in Mpa	480 - 965
other	Ot %	1.000 max.	Yield Strength in Mpa	-
Iron	Fe %	Balance	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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-	-	-	-
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