



Material - AISI 4620

Standard Specification for Structural and Construction Steels

Group - Ferrous Mild Steel Alloys

Sub Group - AISI 4620 Structural and Construction 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 Normalising 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
-	-	-	-
-	-	-	-
-	-	-	-

Further any inquiry to discuss with Gravity Cast Pvt. Ltd. – Gravity Group of Companies team member Call on +918469160029, or email marketing@gravitycastindia.com

All information in our data sheets and website is indicative only and is not intended to be a substitute for the full specification from which it is extracted. It is intended to provide typical values to allow comparison between metal alloy option rather than a definitive statement of mechanical performance or suitability for a particular application as these will vary with temperature, product type and product application. It is presented apart from contractual obligations and does not constitute any guarantee of properties or of processing or application possibilities in individual cases. Our warranties and liabilities are stated exclusively in our terms of business.