

Material: AMS 8620

Standard Specification for General Characteristics and Heat Treatments of Steels

Group: Ferrous Mild Steel Alloys

Sub Group: AMS 8620 General Characteristics and Heat Treatments of 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 %	0.180 - 0.230	Annealing or Normalizing or Hardening + Tempering	
Silicon	Si %	1.500 - 0.350		
Manganese	Mn %	0.700 - 0.900		
Phosphorus	P %	0.035 max.		
Sulphur	S %	0.040 max.		
Chromium	Cr %	0.400 - 6.000		
Nickel	Ni %	0.400 - 0.700		
Molybdenum	Mo %	0.150 - 0.250		
Iron	Fe %	Balance	Mechanical Properties	
-	-	-	Tensile Strength in Mpa	724 min.
-	-	-	Yield Strength in Mpa	586 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
J12048	UNS	USA	Casting
8620	SAE	USA	Bar, Tube, Sheet, Strip and Forging
8620	AISI	USA	Forging, Bar, Wire, and Shape
A732 13Q	AISI	USA	Casting
J13047	UNS	USA	Casting
A487 4A	ASTM	USA	Casting
A487 4B	ASTM	USA	Casting

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Customer Care: +91-99090 45075 Email: info@icastllp.com