



Material - SAE 8620

Standard Specification for General Characteristics and Heat Treatments of Steels

Group - Ferrous Mild Steel Alloys

Sub Group - SAE 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, Tube, Sheet, Strip and Forging

Chemical Composition			Heat Treatment	
Carbon	C %	0.180 - 0.230		
Silicon	Si %	1.500 - 0.350		
Manganese	Mn %	0.700 - 1.000	Annealing or Normalising or Hardening + Tempering	
Phosphorus	Р%	0.012 max.		
Sulphur	S %	0.012 max.		
Chromium	Cr %	0.400 - 0.600		
Nickel	Ni %	0.400 - 0.700		
Molybdenum	Mo %	0.150 - 0.250		
Copper	Cu %	0.350 min.	Mechanical Properties	
Iron	Fe %	Balance	Tensile Strength in Mpa	862 min.
-	-	-	Yield Strength in Mpa	-
-	-	-	Elongation in %	-
-	-	-	Reduction of Area in %	-
-	-	-	Hardness in HB	99 min.
-	-	-	Impact in Joule	48.1 - 61.5 J @ RT
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Cross Reference Table				
Material	Standard	Country	Gr <mark>ade Belong</mark> to the Industry	
J12048	UNS	USA	Casting	
8620	AISI	USA	Forging, Bar, Wire, and Shape	
8620	AMS	USA	Bar and Forging	
A732 13Q	AISI	USA	Casting	
J13047	UNS	USA	Casting	
A487 4A	ASTM	USA	Casting	
A487 4B	ASTM	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

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