



## Material - AISI 8620

## **Standard Specification for Structural and Constructional Steels**

**Group - Ferrous Mild Steel Alloys** 

Sub Group - AISI 8620 Standard Specification for 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 %	0.180 - 0.230		
Silicon	Si %	1.500 - 0.350		
Manganese	Mn %	0.700 - 0.900		
Phosphorus	P %	0.035 max.	Annealing or Normalising or Hardening + Tempering	
Sulphur	S %	0.040 max.		
Chromium	Cr %	0.400 - 6.000		
Nickel	Ni %	0.400 - 0.700		
Molybdenum	Mo %	0.150 - 0.250		
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	99 min.
-	-	-	Impact in Joule	48.1 - 61.5 J @ RT

Cross Reference Table				
Material	Standard	Country	Gr <mark>ade Belon</mark> g to the Industry	
J12048	UNS	USA	Casting	
8620	SAE	USA	Bar, Tube, Sheet, Strip and Forging	
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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