

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	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	Mechanical Properties Tensile Strength in Mpa 480 - 965 Yield Strength in Mpa - Elongation in % - Reduction of Area in % - Hardness in HB 99 min. Impact in Joule 48.1 - 61.5 J @ RT	
Copper	Cu %	0.500 max.		
Tungsten	W %	0.100 max.		
other	Ot %	1.000 max.		
Iron	Fe %	Balance		
-	-	-		
-	-	-		

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	AMS	USA	Bar and Forging
A732 13Q	AISI	USA	Casting
J13047	UNS	USA	Casting
A487 4A	ASTM	USA	Casting
A487 4B	ASTM	USA	Casting

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