

Material: AMS 8630

Standard Specification for General Characteristics and Heat Treatments of Steels

Group: Ferrous Mild Steel Alloys

Sub Group: AMS 8630 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 %	0.280 - 0.330	Annealing or Normalizing or Hardening + Tempering	
Silicon	Si %	0.150 - 0.350		
Manganese	Mn %	0.700 - 0.900		
Phosphorus	P %	0.035 max.		
Sulphur	S %	0.040 max.		
Chromium	Cr %	0.400 - 0.600		
Nickel	Ni %	0.400 - 0.700		
Molybdenum	Mo %	0.150 - 0.250		
Iron	Fe %	Balance	Mechanical Properties	
-	-	-	Tensile Strength in Mpa	1030 min.
-	-	-	Yield Strength in Mpa	793 min.
-	-	-	Elongation in %	7 min.
-	-	-	Reduction of Area in %	-
-	-	-	Hardness in BHN	-
-	-	-	Impact in Joule	-

Cross Reference Table			
Material	Standard	Country	Grade Belong to the Industry
J13051	UNS	USA	Casting
52100	SAE	USA	Bar, Tube, Sheet, Strip and Forging
8630	UNS	USA	Forging, Bar, Wire, and Shape
A732 14Q	AISI	USA	Casting
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