

Material: SAE 8630

Standard Specification for General Characteristics and Heat Treatments of Steels

Group: Ferrous Mild Steel Alloys

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

Chemical Composition		
Carbon	C %	0.280 - 0.330
Silicon	Si %	0.150 - 0.350
Manganese	Mn %	0.700 - 0.900
Phosphorus	P %	0.025 max.
Sulphur	S %	0.025 max.
Chromium	Cr %	0.400 - 0.600
Nickel	Ni %	0.400 - 0.700
Molybdenum	Mo %	0.150 - 0.250
Copper	Cu %	0.350 max.
Iron	Fe %	Balance
-	-	-
-	-	-
-	-	-
-	-	-
-	-	-

Heat Treatment
Annealing or Normalizing or Hardening + Tempering

Mechanical Properties	
Tensile Strength in Mpa	586 - 1379
Yield Strength in Mpa	482 min.
Elongation in %	8 min.
Reduction of Area in %	-
Hardness in BHN	179 - 248
Impact in Joule	25.7 - 53.2 J @ RT

Cross Reference Table			
Material	Standard	Country	Grade Belong to the Industry
J13051	UNS	USA	Casting
8630	UNS	USA	Forging, Bar, Wire, and Shape
8630	AMS	USA	Bar and Forging
A732 14Q	AISI	USA	Casting
-	-	-	-
-	-	-	-
-	-	-	-

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