Material - AISI 8630

Standard Specification for Structural and Constructional Steels

Group - Ferrous Mild Steel Alloys

Sub Group - AISI 8630 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 %	0.280 - 0.330	Annealing or Normalising or Hardening + Tempering	
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		
Iron	Fe %	Balance	Mechanical Properties	
-	-	-	Tensile Strength in Mpa	480 - 1379
-	-	-	Yield Strength in Mpa	482.6 min.
-	-	-	Elongation in %	8 min.
-	-	-	Reduction of Area in %	-
-	-	-	Hardness in HB	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	SAE	USA	Bar, Tube, Sheet, Strip and Forging
8630	AMS	USA	Bar and Forging
A732 14Q	AISI	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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