



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	
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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
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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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