



Material - ASTM A 29 8630

Standard Specification for Hot and Cold-Finished Carbon and Alloy Steel Bars

Group - Ferrous Mild Steel Alloys

Sub Group - ASTM A 29 8630 Hot and Cold-Finished Carbon and Alloy Steel Bars
Application - Intended for Valve, Pump, General Engineering, Automotive and Other Industries
Grade Belongs to the Industry - Bar, Wire, Tube and Forging

Chemical Composition			Heat Treatment	
Carbon	C %	0.280 - 0.330		
Silicon	Si %	0.150 - 0.350	As- Cast or Normalising or Annealing or Hardening + Tempering	
Manganese	Mn %	0.700 - 0.900		ancaling or Hardoning I
Phosphorus	P %	0.035 max.		
Sulphur	S %	0.040 max.		
Chromium	Cr %	0.400 - 0.600		
Molybdenum	Mo %	0.150 - 0.250		
Nickel	Ni %	0.400 - 0.700		-
Copper	Cu %	0.350 max.	Mechanical Properties	
Niobium	Nb %	0.015 max.	Tensile Strength in Mpa	-
Vanadium	V %	0.020 max.	Yield Strength in Mpa	482 min.
Aluminium	Al %	0.020 max.	Elongation in %	8 min.
Iron	Fe %	Balance	Reduction of Area in %	-
-	-	-	Hardness in HB	179 - 248
-	-	-	Impac <mark>t in Joule</mark>	25.7 - 53.2 J @ RT

Cross Reference Table				
Material	Standard	Country	Grade Belong to the Industry	
A915 Grade SC 8630	UNS	USA	Casting	
J13095	UNS	USA	Bar, Wire, Tube and Forging	
A 505 8630	ASTM	USA	Bar, Wire, Tube and Forging	
8630	AISI	USA	Bar, Wire, Tube and Forging	
8630	SAE	USA	Bar, Wire, Tube and Forging	
8630	AMS	USA	Bar, Wire, Tube and Forging	
8630	AS	Australia	Bar, Wire, Tube and Forging	

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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