

# 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		
Carbon	C %	0.280 - 0.330
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
Molybdenum	Mo %	0.150 - 0.250
Nickel	Ni %	0.400 - 0.700
Copper	Cu %	0.350 max.
Niobium	Nb %	0.015 max.
Vanadium	V %	0.020 max.
Aluminium	Al %	0.020 max.
Iron	Fe %	Balance
-	-	-
-	-	-

Heat Treatment
As- Cast or Normalizing or Annealing or Hardening + Tempering

Mechanical Properties	
Tensile Strength in Mpa	-
Yield Strength in Mpa	482 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
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

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