

## Material: AS 8630

### Standard Specification for General Characteristics and Heat Treatments of Steels

**Group:** Ferrous Mild Steel Alloys

**Sub Group:** AS 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, Wire, Tube and Forging

Chemical Composition			Heat Treatment	
Carbon	C %	0.280 - 0.330	As- Cast or Normalizing or Annealing or Hardening + Tempering	
Silicon	Si %	0.150 - 0.350		
Manganese	Mn %	0.700 - 0.900		
Phosphorus	P %	0.040 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.		
Iron	Fe %	Balance		
-	-	-	<b>Mechanical Properties</b> Tensile Strength in Mpa      586 - 1379 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	
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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 29 8630	ASTM	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

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