

# Material: SAE 6150

## Standard Specification for Estimated Mechanical Properties and Machinability of Steel Bars

**Group:** Ferrous Mild Steel Alloys

**Sub Group:** SAE 6150 Estimated Mechanical Properties and Machinability of Steel Bars

**Application:** Intended for Valve, Pump, General Engineering, Automotive and Other Industries

**Grade Belongs to the Industry:** Bar, Tube, Sheet, Strip and Forging

Chemical Composition			Heat Treatment	
Carbon	C %	0.480 - 0.530	Annealing or Normalizing or Hardening + Tempering	
Silicon	Si %	1.500 - 0.350		
Manganese	Mn %	0.700 - 0.900		
Phosphorus	P %	0.035 max.		
Sulphur	S %	0.040 max.		
Chromium	Cr %	0.800 - 1.1000		
Nickel	Ni %	0.250 max.		
Molybdenum	Mo %	0.060 max.		
Vanadium	V %	0.150 max.		
Copper	Cu %	0.350 max.		
Iron	Fe %	Balance	<b>Mechanical Properties</b> Tensile Strength in Mpa 1310 min. Yield Strength in Mpa 1172 min. Elongation in % 4 min. Reduction of Area in % - Hardness in HB 183-241 Impact in Joule -	
-	-	-		
-	-	-		
-	-	-		
-	-	-		
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Cross Reference Table			
Material	Standard	Country	Grade Belong to the Industry
J15048	UNS	USA	Casting
6150	AISI	USA	Forging, Bar, Wire, and Shape
6150	AMS	USA	Bar and Forging
A732 12Q	AISI	USA	Casting
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