

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		
Carbon	C %	0.480 - 0.530
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
-	-	-
-	-	-
-	-	-
-	-	-

Heat Treatment	
Annealing or Normalizing or Hardening + Tempering	

Mechanical Properties	
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	-

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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