



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 Normalising 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	<th colspan="2">Mechanical Properties</th>		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
-	-	-	-
-	-	-	-
-	-	-	-

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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