

Material: SAE 4150

Standard Specification for Estimated Mechanical Properties and Machinability of Steel Bars

Group: Ferrous Mild Steel Alloys

Sub Group: SAE 4150 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, Wire, Tube and Forging

Chemical Composition			Heat Treatment	
Carbon	C %	0.480 - 0.530	As- Cast or Normalizing or Annealing or Hardening + Tempering	
Silicon	Si %	0.150 - 0.350		
Manganese	Mn %	0.750 - 1.000		
Phosphorus	P %	0.030 max.		
Sulphur	S %	0.040 max.		
Chromium	Cr %	0.800 - 1.100		
Molybdenum	Mo %	0.150 - 0.250		
Copper	Cu %	0.350 max.		
Lead	Pb %	0.150 - 0.350	Mechanical Properties	
Iron	Fe %	Balance	Tensile Strength in Mpa	860 - 1379
-	-	-	Yield Strength in Mpa	725 max.
-	-	-	Elongation in %	5 min.
-	-	-	Reduction of Area in %	20 min.
-	-	-	Hardness in HB	187 - 241
-	-	-	Impact in Joule	-

Cross Reference Table			
Material	Standard	Country	Grade Belong to the Industry
A915 Grade SC 4130	ASTM	USA	Casting
4130	AISI	USA	Bar, Wire, Tube and Forging
J13502	UNS	USA	Bar, Wire, Tube and Forging
4150	AS	Australia	Bar, Wire, Tube and Forging
4150	AMS	USA	Bar, Wire, Tube and Forging
A 29 4130	ASTM	USA	Bar, Wire, Tube and Forging
A 505 4130	ASTM	USA	Sheet and Strip

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