



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 Normalising or Annealing or Hardening + Tempering	
Silicon	Si %	0.150 - 0.350		
Manganese	Mn %	0.750 - 1.000		nooling or Hordoning .
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.
-	-	-	Hardn <mark>ess in HB</mark>	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		

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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