



## Material - SAE 52100

### Standard Specification for General Characteristics and Heat Treatments of Steels Bar, Tube, Sheet, Strip and Forging

Group - Ferrous Mild Steel Alloys

Sub Group - SAE 52100 General Characteristics and Heat Treatments of Steels Bar, Tube, Sheet, Strip and Forging

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 %	0.980 - 1.100	Annealing or Normalising or Hardening + Tempering	
Silicon	Si %	0.150 - 0.350		
Manganese	Mn %	0.250 - 0.450		
Phosphorus	P %	0.025 max.		
Sulphur	S %	0.025 max.		
Chromium	Cr %	1.300 - 1.600		
Iron	Fe %	Balance		
-	-	-		
-	-	-		
-	-	-		
			Mechanical Properties	
			Tensile Strength in Mpa	-
			Yield Strength in Mpa	-
			Elongation in %	-
			Reduction of Area in %	-
			Hardness in BHN	100 max.
			Impact in Joule	-

Cross Reference Table			
Material	Standard	Country	Grade Belong to the Industry
52100	UNS	USA	Casting
52100	AISI	USA	Forging, Bar, Wire, and Shape
52100	AMS	USA	Bar and Forging
A732 15A	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](mailto:marketing@gravitycastindia.com)**

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