



Material - AISI 52100

Standard Specification for Structural and Constructional Steels Forging, Bar, Wire and Shape

Group - Ferrous Mild Steel Alloys

Sub Group - AISI 52100 Structural and Constructional Steels Forging, Bar, Wire and Shape

Application - Intended for Valve, Pump, General Engineering, Automotive and Other Industries

Grade Belongs to the Industry - Forging, Bar, Wire and Shape

Chemical Composition			Heat Treatment			
Carbon	C %	0.950 - 1.100	Annealing or Normalising or Hardening + Tempering			
Silicon	Si %	0.150 - 0.300				
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 HB	100 max.
-	-	-			Impact in Joule	-
-	-	-				

Cross Reference Table			
Material	Standard	Country	Grade Belong to the Industry
J19966	UNS	USA	Casting
52100	SAE	USA	Bar, Tube, Sheet, Strip and Forging
52100	AMS	USA	Bar and Forging
A732 15A	AISI	USA	Casting
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-	-	-	-
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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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