

Material: AMS 52100

Standard Specification for Structural and Constructional Steels Bar and Forging

Group: Ferrous Mild Steel Alloys

Sub Group: AMS 52100 Structural and Constructional Steels Bar and Forging

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

Grade Belongs to the Industry: Bar and Forging

Chemical Composition			Heat Treatment	
Carbon	C %	0.980 - 1.100	Annealing or Normalizing 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	Ni %	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
52100.0000	UNS	USA	Casting
52100	SAE	USA	Bar, Tube, Sheet, Strip and Forging
52100	AISI	USA	Forging, Bar, Wire, and Shape
A732 15A	AISI	USA	Casting
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-	-	-	-
-	-	-	-

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