

Material: SAE 1050

Standard Specification For Carbon Steel Compositions For Forging To Hot-Rolled And Cold-Finished Steel, Sheet, Strip and Plate

Group: Ferrous Mild Steel Alloys

Sub Group: SAE 1050 Carbon Steel Compositions For Forging To Hot-Rolled And Cold-Finished Steel, Sheet, Strip and Plate

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

Grade Belongs to the Industry: Steel, Sheet, Strip and Plate

Chemical Composition			Heat Treatment	
Carbon	C %	0.480 - 0.550	As Raw or Annealing or Normalizing or Hardening and Tempering	
Manganese	Mn %	0.600 - 0.900		
Phosphorus	P %	0.030 max.		
Sulphur	S %	0.035 max.		
Silicon	Si %	0.150 - 0.300		
Iron	Fe %	Balance		
-	-	-		
-	-	-	Mechanical Properties Tensile Strength in Mpa 620 - 690 Yield Strength in Mpa 340 min. Elongation in % 10 min. Reduction of Area in % 30 - 40 Hardness in HB 179 - 197 Impact in Joule 9.5 - 12.2 J @ RT	
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Cross Reference Table			
Material	Standard	Country	Grade Belong to the Industry
G10500	UNS	USA	Bars, Wire Rods, Plates, Strip, Sheets and Tubing
1050	AISI	USA	Steel, Sheet, Strip and Plate
A 311 1050 Class A	ASTM	USA	Steel and Bar
A 311 1050 Class B	ASTM	USA	Steel and Bar
A 513 Grade 1050	ASTM	USA	Steel and Tubing
A 684 Grade 1050	ASTM	USA	Steel and Strip
A 108 Grade 1050	ASTM	USA	Steel and Bar

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