

Material: ASTM A 684 Grade 1050

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

Group: Ferrous Mild Steel Alloys

Sub Group: ASTM A 684 Grade 1050 Carbon Steel Compositions For Forging To Hot-Rolled And Cold-Finished Steel and Strip

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

Grade Belongs to the Industry: Steel and Strip

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 %	0.050 max.	
Chromium	Cr %	0.250 max.	
Copper	Cu %	0.300 max.	
Silicon	Si %	0.150 - 0.300	
Nickel	Ni %	0.300 max.	
Molybdenum	Mo %	0.100 max.	
Iron	Fe %	Balance	
-	-	-	
-	-	-	
-	-	-	
-	-	-	
-	-	-	

Mechanical Properties		
Tensile Strength in Mpa	795 min.	
Yield Strength in Mpa	690 min.	
Elongation in %	7 min.	
Reduction of Area in %	20 min.	
Hardness in HB	-	
Impact in Joule	-	

Cross Reference Table			
Material	Standard	Country	Grade Belong to the Industry
G10500	UNS	USA	Bars, Wire Rods, Plates, Strip, Sheets and Tubing
1050	SAE	USA	Steel, Sheet, Strip and Plate
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 108 Grade 1050	ASTM	USA	Steel and Bar

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