

Material: ASTM A 682 G10800

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 682 G10800 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 %	0.750 - 0.880	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
			680 - 2310
			Yield Strength in Mpa
			420 min.
			Elongation in %
			10 min.
			Reduction of Area in %
			25 - 40
			Hardness in HB
			192 - 229
			Impact in Joule
			-

Cross Reference Table			
Material	Standard	Country	Grade Belong to the Industry
G10800	UNS	USA	Bars, Wire Rods, Plates, Strip, Sheets and Tubing
1080	SAE	USA	Steel
1080	AISI	USA	Steel and Bar
A 1040 1080	ASTM	USA	Steel
A 29 1080	ASTM	USA	Steel and Bar
A 510 1080	ASTM	USA	Wire Rods, Round Wire and Steel
A 576 10L80	ASTM	USA	Steel and Bar

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