



Material - SAE 1080

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

Group - Ferrous Mild Steel Alloys

Sub Group - SAE 1080 Carbon Steel Compositions For Forging To Hot-Rolled And Cold-Finished Steel

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

Grade Belongs to the Industry - Steel

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.		
Boron	B %	0.0005 - 0.003		
Chromium	Cr %	0.150 max.		
Copper	Cu %	0.200 min.		
Molybdenum	Mo %	0.060 max.		
Nickel	Ni %	0.200 max.		
Lead	Pb %	0.150 - 0.350		
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	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
A 682 G10800	ASTM	USA	Steel and Strip

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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