

Material: ASTM A 29 1080

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

Group: Ferrous Mild Steel Alloys

Sub Group: ASTM A 29 1080 Carbon Steel Compositions For Forging To Hot-Rolled And Cold-Finished Steel and Bar

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

Grade Belongs to the Industry: Steel and bar

Chemical Composition		
Carbon	C %	0.750 - 0.880
Manganese	Mn %	0.600 - 0.900
Phosphorus	P %	0.040 max.
Sulphur	S %	0.050 max.
Boron	B %	0.0005 - 0.003
Silicon	Si %	0.100 max.
Aluminium	Al %	0.020 min.
Copper	Cu %	0.200 min.
Niobium	Nb %	0.015 min.
Vanadium	V %	0.020 min.
-	-	-
-	-	-
-	-	-
-	-	-
-	-	-

Heat Treatment	
As Raw or Annealing or Normalizing or Hardening and Tempering	

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 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

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