

# Material: ASTM A 108 Grade 1030

## 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 108 Grade 1030 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			Heat Treatment
Carbon	C %	0.280 - 0.340	As Raw or Annealing or Normalizing or Hardening and Tempering
Manganese	Mn %	0.600 - 0.900	
Phosphorus	P %	0.040 max.	
Sulphur	S %	0.050 max.	
Silicon	Si %	0.100 max.	
Lead	Pb %	0.150 - 0.350	
Iron	Fe %	Balance	
-	-	-	
-	-	-	
-	-	-	
Mechanical Properties			
			Tensile Strength in Mpa
			415 - 896
			Yield Strength in Mpa
			260 min.
			Elongation in %
			5 min.
			Reduction of Area in %
			35 - 42
			Hardness in HB
			137 - 149
			Impact in Joule
			36.9 - 52.3 J @ RT

Cross Reference Table			
Material	Standard	Country	Grade Belong to the Industry
G10300	UNS	USA	Bars, Wire Rods, Plates, Strip, Sheets and Tubing
1030	SAE	USA	Steel
1030	AISI	USA	Tubing
A 1040 1030	ASTM	USA	Steel
A 29 1030	ASTM	USA	Steel and Bar
A 510 1030	ASTM	USA	Wire Rod and Round Wire
A 512 Grade 1030	ASTM	USA	Tubing

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