

# Material: ASTM A 576 10L90

## Standard Specification For Carbon Steel Compositions For Forging To Hot-Rolled Steel and Bar

**Group:** Ferrous Mild Steel Alloys

**Sub Group:** ASTM A 576 10L90 Carbon Steel Compositions For Forging To Hot-Rolled 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 %	0.850 - 0.980
Manganese	Mn %	0.600 - 0.900
Phosphorus	P %	0.040 max.
Sulphur	S %	0.050 max.
Boron	B %	0.0005 - 0.003
Copper	Cu %	0.200 max.
Lead	Pb %	0.150 - 0.350
Silicon	Si %	0.100 max.
Iron	Fe %	Balance
-	-	-
-	-	-
-	-	-
-	-	-
-	-	-
-	-	-

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

Mechanical Properties	
Tensile Strength in Mpa	700 - 840
Yield Strength in Mpa	460 min.
Elongation in %	10 min.
Reduction of Area in %	25 - 40
Hardness in HB	197 - 248
Impact in Joule	-

Cross Reference Table			
Material	Standard	Country	Grade Belong to the Industry
G10900	UNS	USA	Bars, Wire Rods, Plates, Strip, Sheets and Tubing
1090	SAE	USA	Steel and Wire
1090	AISI	USA	Steel and Wire
A 1040 1090	ASTM	USA	Steel
A 29 1090	ASTM	USA	Steel and Bar
A 510 1090	ASTM	USA	Wire Rod, Round Wire and Steel
A 713 G10900	ASTM	USA	Steel and Wire

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