Material: ASTM A 1040 1012

Standard Specification For Carbon Steel Compositions For Forging To Hot-Rolled And Cold-Finished Bars, To Wire Rods, Plates, Strip, Sheet and Tubing

Group: *Ferrous Mild Steel Alloys*

Sub Group: *ASTM A 1040 1012 Carbon Steel Compositions For Forging To Hot-Rolled And Cold-Finished Bars, Wire Rods, Plates, Strip, Sheets and Tubing*

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

Grade Belongs to the Industry: *Bars, Wire Rods, Plates, Strip, Sheets and Tubing*

Chemical Composition		
Carbon	C %	0.100 - 0.150
Manganese	Mn %	0.300 - 0.600
Phosphorus	P %	0.035 max.
Sulphur	S %	0.035 max.
Boron	B %	0.0005 - 0.003
Copper	Cu %	0.200 max.
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	330 - 370
Yield Strength in Mpa	180 min.
Elongation in %	19 min.
Reduction of Area in %	40 - 50
Hardness in HB	95 - 105
Impact in Joule	-

Cross Reference Table			
Material	**Standard**	**Country**	**Grade Belong to the Industry**
G10120	UNS	USA	Bars, Wire Rods, Plates, Strip, Sheets and Tubing
1012	SAE	USA	Bars, Wire Rods, Plates, Strip, Sheets and Tubing
1012	AISI	USA	Bars, Wire Rods, Plates, Strip, Sheets and Tubing
A 29 1012	ASTM	USA	Bar
A 29 M1012	ASTM	USA	Bar
A 510 1012	ASTM	USA	Wire Rod
A 512 Grade 1012	ASTM	USA	Tubing

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