

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			Heat Treatment
Carbon	C %	0.100 - 0.150	As Raw or Annealing or Normalizing or Hardening and Tempering
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	
-	-	-	
-	-	-	
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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