

Material: SAE 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: SAE 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 %	0.040 max.	
Sulphur	S %	0.050 max.	
Chromium	Cr %	0.070 max.	
Copper	Cu %	0.200 max.	
Molybdenum	Mo %	0.050 max.	
Nickel	Ni %	0.150 max.	
Silicon	Si %	0.200 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	AISI	USA	Bars, Wire Rods, Plates, Strip, Sheets and Tubing
A 1040 1012	ASTM	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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