

# Material: ASTM A 510 1012

## Standard Specification For General Requirements for Wire Rods

**Group:** Ferrous Mild Steel Alloys

**Sub Group:** ASTM A 510 1012 General Requirements for Wire Rods

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

**Grade Belongs to the Industry:** Wire Rod

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.		
Boron	B %	0.0008 Max.		
Iron	Fe %	Balance		
-	-	-		
-	-	-	<b>Mechanical Properties</b> 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 -	
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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 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 512 Grade 1012	ASTM	USA	Tubing

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