

**Material: ASTM A 510 1040**

# Standard Specification For Carbon Steel Compositions For Forging To Hot-Rolled And Cold-Finished Wire Rod and Round Wire

## **Group: Ferrous Mild Steel Alloys**

## **Sub Group: ASTM A 510 1040 Carbon Steel Compositions For Forging To Hot-Rolled And Cold-Finished Wire Rod and Round Wire**

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

## **Grade Belongs to the Industry: Wire Rod and Round Wire**

Chemical Composition			Heat Treatment
Carbon	C %	0.370 - 0.440	As Raw or Annealing or Normalizing or Hardening and Tempering
Manganese	Mn %	0.600 - 0.900	
Phosphorus	P %	0.040 max.	
Sulphur	S %	0.050 max.	
Boron	B %	0.0008 Max.	
Iron	Fe %	Balance	
-	-	-	
-	-	-	
-	-	-	
-	-	-	
Mechanical Properties			
Tensile Strength in Mpa			450 min
Yield Strength in Mpa			310 min.
Elongation in %			5 min.
Reduction of Area in %			-
Hardness in HB			149 - 170
Impact in Joule			-

Cross Reference Table			
Material	Standard	Country	Grade Belong to the Industry
G10400	UNS	USA	Bars, Wire Rods, Plates, Strip, Sheets and Tubing
1040	SAE	USA	Steel
1040	AISI	USA	Tubing
A 1040 1040	ASTM	USA	Steel
A 108 Grade 1040	ASTM	USA	Bar
A 29 1040	ASTM	USA	Steel
A 513 Grade 1040	ASTM	USA	Tubing

**Disclaimer:** All information displayed in our data sheets are for reference purpose only and are sole property of their respective owners. Information and or material are used for educational purposes only. Data at actual may vary at actual and case to case basis. ICAST Alloys LLP does not guarantee validity of these parameters. Warranties and liabilities are exclusive to our terms and conditions of business.

Customer Care: +91-99090 45075 Email: [info@icastllp.com](mailto:info@icastllp.com)