

Material: ASTM A 29 1040

Standard Specification For Carbon Steel Compositions For Forging To Hot-Rolled And Cold-Finished Steel

Group: Ferrous Mild Steel Alloys

Sub Group: ASTM A 29 1040 Carbon Steel Compositions For Forging To Hot-Rolled And Cold-Finished Steel

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

Grade Belongs to the Industry: Steel

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.		
Aluminium	Al %	0.020 max.		
Silicon	Si %	0.100 max.		
Boron	B %	0.0005 - 0.003		
Copper	Cu %	0.200 max.		
Niobium	Nb %	0.015 max.		
Vanadium	V %	0.020 max.		
Iron	Fe %	Balance	Mechanical Properties	
-	-	-	Tensile Strength in Mpa	418 min.
-	-	-	Yield Strength in Mpa	290 min.
-	-	-	Elongation in %	5 min.
-	-	-	Reduction of Area in %	35 - 40
-	-	-	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 513 Grade 1040	ASTM	USA	Tubing
A 510 1040	ASTM	USA	Wire Rod and Round Wire

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