

Material: ASTM A 29 1044

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

Group: Ferrous Mild Steel Alloys

Sub Group: ASTM A 29 1044 Carbon Steel Compositions For Forging To Hot-Rolled And Cold-Finished Steel and Bar

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

Grade Belongs to the Industry: Steel and Bar

Chemical Composition			Heat Treatment	
Carbon	C %	0.430 - 0.500	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.		
Copper	Cu %	0.200 max.		
Silicon	Si %	0.100 max.		
Aluminium	Al %	0.020 max.		
Boron	B %	0.0005 - 0.003		
Niobium	Nb %	0.015 max.	Mechanical Properties	
Vanadium	V %	0.020 max.	Tensile Strength in Mpa	550 min.
Iron	Fe %	Balance	Yield Strength in Mpa	300 min.
-	-	-	Elongation in %	16 min.
-	-	-	Reduction of Area in %	40 min.
-	-	-	Hardness in HB	163 max.
-	-	-	Impact in Joule	-

Cross Reference Table			
Material	Standard	Country	Grade Belong to the Industry
G10440	SAE	USA	Bars, Wire Rods, Plates, Strip, Sheets and Tubing
1044	SAE	USA	Bars, Wire Rods, Plates, Strip, Sheets and Tubing
1044	AISI	USA	Bars, Wire Rods, Plates, Strip, Sheets and Tubing
M1044	SAE	USA	Steel
M1044	AISI	USA	Steel
A 1040 1044	ASTM	USA	Steel
A 575 M1044	ASTM	USA	Steel and Bar

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