

# Material: SAE 1044

## Standard Specification For Carbon Steel Compositions For Forging To Hot-Rolled And Cold-Finished Bars, To Wire Rods, Plates, Strip, Sheets and Tubing

**Group:** Ferrous Mild Steel Alloys

**Sub Group:** SAE 1044 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 %	0.430 - 0.500	
Manganese	Mn %	0.300 - 0.600	
Phosphorus	P %	0.030 max.	
Sulphur	S %	0.035 max.	
Boron	B %	0.0005 - 0.003	
Chromium	Cr %	0.150 max.	
Copper	Cu %	0.200 max.	
Molybdenum	Mo %	0.060 max.	
Nickel	Ni %	0.200 max.	
Lead	Pb %	0.150 - 0.350	
Iron	Fe %	Balance	
-	-	-	
-	-	-	
-	-	-	
-	-	-	

  

Mechanical Properties		
Tensile Strength in Mpa	550 min.	
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	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 29 1044	ASTM	USA	Steel and Bar
A 575 M1044	ASTM	USA	Steel and Bar

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