

Material: SAE 1144

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 1144 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 %	0.400 - 0.480	As Raw or Annealing or Normalizing or Hardening and Tempering
Manganese	Mn %	1.350 - 1.650	
Phosphorus	P %	0.030 max.	
Sulphur	S %	0.240 - 0.330	
Lead	Pb %	0.150 - 0.350	
Iron	Fe %	Balance	
-	-	-	
-	-	-	
-	-	-	
-	-	-	
Mechanical Properties			
Tensile Strength in Mpa			670 min.
Yield Strength in Mpa			370 min.
Elongation in %			5 min.
Reduction of Area in %			30 - 35
Hardness in HB			197 - 321
Impact in Joule			-

Cross Reference Table			
Material	Standard	Country	Grade Belong to the Industry
G11440	UNS	USA	Bars, Wire Rods, Plates, Strip, Sheets and Tubing
1144	AISI	USA	Steel and Bar
A 1040 1144	ASTM	USA	Steel
A 108 Grade 1144	ASTM	USA	Steel and Bar
A 29 1144	ASTM	USA	Steel and Bar
A 311 1144 Class A	ASTM	USA	Steel and Bar
A 311 1144 Class B	ASTM	USA	Steel and Bar

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