

Material: AISI 1144

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

Group: Ferrous Mild Steel Alloys

Sub Group: AISI 1144 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		
Carbon	C %	0.400 - 0.480
Manganese	Mn %	1.350 - 1.650
Phosphorus	P %	0.040 max.
Sulphur	S %	0.240 - 0.330
Aluminium	Al %	0.020 max.
Niobium	Nb %	0.015 max.
Silicon	Si %	0.100 max.
Vanadium	V %	0.020 max.
Iron	Fe %	Balance
-	-	-
-	-	-
-	-	-
-	-	-
-	-	-
-	-	-

Heat Treatment
As Raw or Annealing or Normalizing or Hardening and Tempering

Mechanical Properties	
Tensile Strength in Mpa	585 min.
Yield Strength in Mpa	370 min.
Elongation in %	5 min.
Reduction of Area in %	20 min.
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	SAE	USA	Bars, Wire Rods, Plates, Strip, Sheets and Tubing
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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