

## Material: ASTM A 311 1144 Class B

### 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 311 1144 Class B 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 %	0.400 - 0.480	As Raw or Annealing or Normalizing or Hardening and Tempering	
Manganese	Mn %	1.350 - 1.650		
Phosphorus	P %	0.040 max.		
Sulphur	S %	0.240 - 0.330		
Iron	Fe %	Balance		
-	-	-		
-	-	-		
-	-	-	<b>Mechanical Properties</b> Tensile Strength in Mpa 795 min. Yield Strength in Mpa 690 min. Elongation in % 7 min. Reduction of Area in % 20 min. Hardness in BHN - 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
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

**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](mailto:info@icastllp.com)