

## Material: SAE 1141

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

**Group:** Ferrous Mild Steel Alloys

**Sub Group:** SAE 1141 Carbon Steel Compositions For Forging To Hot-Rolled And Cold-Finished Steel

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

**Grade Belongs to the Industry:** Steel

Chemical Composition		
Carbon	C %	0.370 - 0.450
Manganese	Mn %	1.350 - 1.650
Phosphorus	P %	0.030 max.
Sulphur	S %	0.080 - 0.130
Lead	Pb %	0.150 - 0.350
Iron	Fe %	Balance
-	-	-
-	-	-
-	-	-
-	-	-
-	-	-
-	-	-
-	-	-
-	-	-
-	-	-
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-	-	-
-	-	-
-	-	-

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

Mechanical Properties	
Tensile Strength in Mpa	650 min.
Yield Strength in Mpa	360 min.
Elongation in %	10 min.
Reduction of Area in %	30 - 35
Hardness in HB	187 - 321
Impact in Joule	-

Cross Reference Table			
Material	Standard	Country	Grade Belong to the Industry
G11410	UNS	USA	Bars, Wire Rods, Plates, Strip, Sheets and Tubing
1141	AISI	USA	Steel and Bar
A 1040 1141	ASTM	USA	Steel
A 108 Grade 1141	ASTM	USA	Steel and Bar
A 29 1141	ASTM	USA	Steel and Bar
A 311 1141 Class A	ASTM	USA	Steel and Bar
A 311 1141 Class B	ASTM	USA	Steel and Bar

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