

## Material: SAE 1132

### 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 1132 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 %	0.270 - 0.340	As Raw or Annealing or Normalizing or Hardening and Tempering	
Manganese	Mn %	1.350 - 1.650		
Phosphorus	P %	0.030 max.		
Sulphur	S %	0.080 - 1.000		
Lead	Pb %	0.150 - 0.350		
Iron	Fe %	Balance		
-	-	-		
-	-	-	<b>Mechanical Properties</b> Tensile Strength in Mpa 550 - 760 Yield Strength in Mpa 310 - 620 Elongation in % 12 - 23 Reduction of Area in % 35 - 40 Hardness in HB 164 - 217 Impact in Joule -	
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-	-	-		
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-	-	-		
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Cross Reference Table			
Material	Standard	Country	Grade Belong to the Industry
G11320	UNS	USA	Bars, Wire Rods, Plates, Strip, Sheets and Tubing
1132	AISI	USA	Steel and Bar
A 1040 1132	ASTM	USA	Steel
A 29 1132	ASTM	USA	Steel and Bar
A 510 1132	ASTM	USA	Wire Rod, Round Wire and Steel
A 519 1132	ASTM	USA	Steel and Tubing
A 576 11L32	ASTM	USA	Steel and Bar

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