



## Material - AISI 1132

**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 1132 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 %	0.270 - 0.340	As Raw or Annealing or Normalizing or Hardening and Tempering	
Manganese	Mn %	1.350 - 1.650		
Phosphorus	P %	0.040 max.		
Sulphur	S %	0.080 - 0.130		
Aluminium	Al %	0.020 max.		
Niobium	Nb %	0.015 max.		
Silicon	Si %	0.100 - 0.200		
Vanadium	V %	0.020 max.		
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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Cross Reference Table			
Material	Standard	Country	Grade Belong to the Industry
G11320	UNS	USA	Bars, Wire Rods, Plates, Strip, Sheets and Tubing
1132	SAE	USA	Bars, Wire Rods, Plates, Strip, Sheets and Tubing
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

**Further any inquiry to discuss with Gravity Cast Pvt. Ltd. – Gravity Group of Companies team member Call on +918469160029, or email [marketing@gravitycastindia.com](mailto:marketing@gravitycastindia.com)**

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