

## Material: SAE 1035

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

**Group:** Ferrous Mild Steel Alloys

**Sub Group:** SAE 1035 Carbon Steel Compositions For Forging To Hot-Rolled And Cold-Finished Steel and Tubing

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

**Grade Belongs to the Industry:** Steel and Tubing

Chemical Composition			Heat Treatment	
Carbon	C %	0.310 - 0.380	As Raw or Annealing or Normalizing or Hardening and Tempering	
Manganese	Mn %	0.600 - 0.900		
Phosphorus	P %	0.040 max.		
Sulphur	S %	0.050 max.		
Silicon	Si %	0.100 - 0.300		
Iron	Fe %	Balance		
-	-	-		
-	-	-	<b>Mechanical Properties</b> Tensile Strength in Mpa 500 - 862 Yield Strength in Mpa 270 min. Elongation in % 8 min. Reduction of Area in % 22 min. Hardness in HB 143 max. Impact in Joule -	
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Cross Reference Table			
Material	Standard	Country	Grade Belong to the Industry
G10350	UNS	USA	Bars, Wire Rods, Plates, Strip, Sheets and Tubing
1035	AISI	USA	Steel and Tubing
A 1040 1035	ASTM	USA	Steel
A 108 Grade 1035	ASTM	USA	Steel and Bar
A 29 1035	ASTM	USA	Steel and Bar
A 311 1035 Class A	ASTM	USA	Steel and Bar
A 510 1035	ASTM	USA	Wire Rod and Round Wire

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Customer Care: +91-99090 45075 Email: [info@icastllp.com](mailto:info@icastllp.com)