



## Material - ASTM A 29 1035

**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 29 1035 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 %	0.320 - 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.		
Aluminium	Al %	0.020 max.		
Boron	B %	0.0005 - 0.003		
Copper	Cu %	0.200 max.		
Niobium	Nb %	0.015 max.		
Silicon	Si %	0.100 max.		
Vanadium	V %	0.020 max.		
Iron	Fe %	Balance	Mechanical Properties	
-	-	-	Tensile Strength in Mpa	415 - 862
-	-	-	Yield Strength in Mpa	230 min.
-	-	-	Elongation in %	5 min.
-	-	-	Reduction of Area in %	22 min.
-	-	-	Hardness in HB	143 max.
-	-	-	Impact in Joule	-

Cross Reference Table			
Material	Standard	Country	Grade Belong to the Industry
G10350	UNS	USA	Bars, Wire Rods, Plates, Strip, Sheets and Tubing
1035	SAE	USA	Steel and Tubing
1035	AISI	USA	Steel and Tubing
A 1040 1035	ASTM	USA	Steel
A 108 Grade 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

**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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