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		
Carbon	C %	0.320 - 0.380
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
-	-	-
-	-	-
-	-	-
-	-	-

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

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

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