Material: SAE 1016

Standard Specification For Carbon Steel Compositions For Forging To Hot-Rolled And Cold-Finished Bars, To Bars, Wire Rods and Tubing

Group: *Ferrous Mild Steel Alloys*
Sub Group: *SAE 1016 Steel Compositions For Forging To Hot-Rolled And Cold-Finished Bars, Wire Rods and Tubing*
Application: *Intended for Valve, Pump, General Engineering, Automotive and Other Industries*
Grade Belongs to the Industry: *Bars, Wire Rods and Tubing*

Chemical Composition		
Carbon	C %	0.130 - 0.180
Manganese	Mn %	0.600 - 0.900
Phosphorus	P %	0.030 max.
Sulphur	S %	0.050 max.
Chromium	Cr %	0.150 max.
Copper	Cu %	0.200 max.
Molybdenum	Mo %	0.060 max.
Nickel	Ni %	0.200 max.
Lead	Pb %	0.150 - 0.350
Iron	Fe %	Balance
-	-	-
-	-	-
-	-	-
-	-	-
-	-	-

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

Mechanical Properties	
Tensile Strength in Mpa	380 - 420
Yield Strength in Mpa	210 min
Elongation in %	18 min.
Reduction of Area in %	40 - 50
Hardness in HB	111 - 121
Impact in Joule	-

Cross Reference Table			
Material	**Standard**	**Country**	**Grade Belong to the Industry**
G10160	UNS	USA	Bars, Wire Rods, Plates, Strip, Sheets and Tubing
1016	AISI	USA	Tubing
A 1040 1016	ASTM	USA	Steel
A 108 Grade 1016	ASTM	USA	Steel and Bar
A 29 1016	ASTM	USA	Steel and Bar
A 510 1016	ASTM	USA	Wire Rods
A 512 Grade 1016	ASTM	USA	Tubing

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