

Material: ASTM A 1040 1016

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

Group: Ferrous Mild Steel Alloys

Sub Group: ASTM A 1040 1016 Carbon Steel Compositions For Forging To Hot-Rolled And Cold-Finished Steel

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

Grade Belongs to the Industry: Steel

Chemical Composition			Heat Treatment	
Carbon	C %	0.130 - 0.180	As Raw or Annealing or Normalizing or Hardening and Tempering	
Manganese	Mn %	0.600 - 0.900		
Phosphorus	P %	0.030 max.		
Sulphur	S %	0.035 max.		
Copper	Cu %	0.200 max.		
Silicon	Si %	0.100 max.		
Boron	B %	0.0005 - 0.003		
Iron	Fe %	Balance		
-	-	-	Mechanical Properties	
-	-	-	Tensile Strength in Mpa	380 - 689
-	-	-	Yield Strength in Mpa	210 min
-	-	-	Elongation in %	13 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	SAE	USA	Bars, Wire Rods and Tubing
1016	AISI	USA	Tubing
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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Customer Care: +91-99090 45075 Email: info@icastllp.com