

Material: ASTM A 29 1016

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 1016 Carbon Steel Compositions For Forging To Hot-Rolled And Cold-Finished Steel and

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 %	0.130 - 0.180	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.	
Silicon	Si %	0.100 max.	
Boron	B %	0.0005 - 0.003	
Copper	Cu %	0.200 max.	
Niobium	Nb %	0.025 max.	
Vanadium	V %	0.050 max.	
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 1040 1016	ASTM	USA	Steel
A 108 Grade 1016	ASTM	USA	Steel and Bar
A 510 1016	ASTM	USA	Wire Rods
A 512 Grade 1016	ASTM	USA	Tubing

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