

Material: ASTM A 29 M1017

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 M1017 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 %	0.140 - 0.210	As Raw or Annealing or Normalizing or Hardening and Tempering	
Manganese	Mn %	0.250 - 0.600		
Phosphorus	P %	0.040 Max.		
Sulphur	S %	0.050 max.		
Aluminium	Al %	0.020 max.		
Niobium	Nb %	0.025 max.		
Vanadium	V %	0.050 max.		
Iron	Fe %	Balance		
-	-	-	Mechanical Properties	
-	-	-	Tensile Strength in Mpa	370 - 410
-	-	-	Yield Strength in Mpa	200 min.
-	-	-	Elongation in %	18 min.
-	-	-	Reduction of Area in %	40 - 50
-	-	-	Hardness in HB	105 - 116
-	-	-	Impact in Joule	-

Cross Reference Table			
Material	Standard	Country	Grade Belong to the Industry
G10170	UNS	USA	Bars, Wire Rods and Tubing
1017	SAE	USA	Steel and Bar
1017	AISI	USA	Tubing
A 1040 1017	ASTM	USA	Steel
A 29 1017	ASTM	USA	Steel and Bar
A 510 1017	ASTM	USA	Wire Rod and Round Wire
A 513 Grade 1017	ASTM	USA	Tubing

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