

Material: ASTM A 1040 1017

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 1017 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 %	0.150 - 0.200	As Raw or Annealing or Normalizing or Hardening and Tempering	
Manganese	Mn %	0.300 - 0.600		
Phosphorus	P %	0.030 Max.		
Sulphur	S %	0.035 max.		
Copper	Cu %	0.200 max.		
Boron	B %	0.0005 - 0.003		
Silicon	Si %	0.100 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 29 1017	ASTM	USA	Steel and Bar
A 29 M1017	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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Customer Care: +91-99090 45075 Email: info@icastllp.com