Material: SAE 1017

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

Group: *Ferrous Mild Steel Alloys*

Sub Group: *SAE 1017 Carbon Steel Compositions For Forging To Hot-Rolled And Cold-Finished Bars, Wire Rods,* **Plates, Strip, Sheets and Tubing**

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

Grade Belongs to the Industry: *Steel and Bar*

Chemical Composition		
Carbon	C %	0.150 - 0.200
Manganese	Mn %	0.300 - 0.600
Phosphorus	P %	0.040 max.
Sulphur	S %	0.050 max.
Chromium	Cr %	0.070 max.
Copper	Cu %	0.200 max.
Molybdenum	Mo %	0.050 max.
Nickel	Ni %	0.150 max.
Silicon	Si %	0.200 max.
Iron	Fe %	Balance
-	-	-
-	-	-
-	-	-
-	-	-
-	-	-

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

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	AISI	USA	Tubing
A 1040 1017	ASTM	USA	Steel
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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