

## 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			Heat Treatment	
Carbon	C %	0.150 - 0.200		
Manganese	Mn %	0.300 - 0.600	As Raw or Annealing or Normalizing or Hardening and Tempering	
Phosphorus	P %	0.040 max.		alizing or Hardoning and
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.	Mechanical Properties	
Iron	Fe %	Balance	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
-	-	-	Impac <mark>t in Joule</mark>	-

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		

Further any inquiry to discuss with Gravity Cast Pvt. Ltd. – Gravity Group of Companies team member Call on +918469160029, or email marketing@gravitycastindia.com

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