

Material: SAE 1117

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

Group: Ferrous Mild Steel Alloys

Sub Group: SAE 1117 Carbon Steel Compositions For Forging To Hot-Rolled And Cold-Finished Steel, Bar, Forging and Tubing

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

Grade Belongs to the Industry: Steel, Bar, Forging and Tubing

Chemical Composition			Heat Treatment
Carbon	C %	0.140 - 0.200	As Raw or Annealing or Normalizing or Hardening and Tempering
Manganese	Mn %	1.000 - 1.300	
Phosphorus	P %	0.040 max.	
Sulphur	S %	0.080 - 0.130	
Iron	Fe %	Balance	
-	-	-	
-	-	-	
-	-	-	
-	-	-	
-	-	-	
-	-	-	
-	-	-	
-	-	-	
-	-	-	

Mechanical Properties	
Tensile Strength in Mpa	430 - 480
Yield Strength in Mpa	230 min.
Elongation in %	15 min.
Reduction of Area in %	40 - 47
Hardness in HB	121 - 248
Impact in Joule	-

Cross Reference Table			
Material	Standard	Country	Grade Belong to the Industry
G11170	UNS	USA	Bars, Wire Rods, Plates, Strip, Sheets and Tubing
1117	AISI	USA	Steel and Bar
SUM 31	JIS	Japan	Steel
A 576 1117	ASTM	USA	Steel and Bar
SA-311 1117 Class A	ASME	USA	Steel and Bar
A 576 11L17	ASTM	USA	Steel and Bar
A 29 1117	ASTM	USA	Steel and Bar

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