

Material: SAE J403 | SAE J1397 UNS G11170 - Hot Rolled Standard Specification For Carbon Steel Compositions For Forging To Hot-Rolled And Cold-Finished Bars, To Wire Rods, Plates, Strip, Sheets and Tubing

Group: Ferrous Mild Steel Alloys

Sub Group: SAE J403 | SAE J1397 UNS G11170 - Hot Rolled 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: Bars, Wire Rods, Plates, Strip, Sheets 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 %	0.030 max.		
Sulphur	S %	0.080 - 0.130		
Iron	Fe %	Balance		
-	-	-		
-	-	-		
-	-	-	Mechanical Properties Tensile Strength in Mpa 430 min. Yield Strength in Mpa 230 min. Elongation in % 23 min. Reduction of Area in % 47 min. Hardness in BHN 121 max. Impact in Joule -	
-	-	-		
-	-	-		
-	-	-		
-	-	-		
-	-	-		
-	-	-		

Cross Reference Table			
Material	Standard	Country	Grade Belong to the Industry
1117	SAE	USA	Steel, Bar, Forging 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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