

Material: SAE J403 | SAE J1397 UNS G10190 - 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 G10190 - 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 %	0.150 - 0.200	As Raw or Annealing or Normalizing or Hardening and Tempering	
Manganese	Mn %	0.700 - 1.000		
Phosphorus	P %	0.030 max.		
Sulphur	S %	0.050 max.		
Iron	Fe %	Balance		
-	-	-		
-	-	-		
-	-	-	Mechanical Properties Tensile Strength in Mpa 410 min. Yield Strength in Mpa 220 min. Elongation in % 25 min. Reduction of Area in % 50 min. Hardness in HB 116 max. Impact in Joule -	
-	-	-		
-	-	-		
-	-	-		
-	-	-		
-	-	-		
-	-	-		

Cross Reference Table			
Material	Standard	Country	Grade Belong to the Industry
1019	SAE	USA	Steel
1019	AISI	USA	Tubing
A 1040 1019	ASTM	USA	Steel
A 29 1019	ASTM	USA	Steel and Bar
A 510 1019	ASTM	USA	Wire Rod and Round Wire
A 512 Grade 1019	ASTM	USA	Tubing
A 513 1019	ASTM	USA	Tubing

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