

**Material: SAE J403 | SAE J1397 UNS G10490 - 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 G10490 - 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 %	0.460 - 0.530	As Raw or Annealing or Normalizing or Hardening and Tempering
Manganese	Mn %	0.600 - 0.900	
Phosphorus	P %	0.030 max.	
Sulphur	S %	0.050 max.	
Iron	Fe %	Balance	
-	-	-	
-	-	-	
-	-	-	
-	-	-	
-	-	-	
Mechanical Properties			
			Tensile Strength in Mpa
			600 min.
			Yield Strength in Mpa
			330 min.
			Elongation in %
			15 min.
			Reduction of Area in %
			35 min.
			Hardness in HB
			179 max.
			Impact in Joule
			-

Cross Reference Table			
Material	Standard	Country	Grade Belong to the Industry
1049	SAE	USA	Steel
1049	AISI	USA	Bar
A 830 G10490	ASTM	USA	Plate and Steel
A 830 1049	ASTM	USA	Plate and Steel
A 576 10L49	ASTM	USA	Steel
A 29 1049	ASTM	USA	Steel and Bar
A 510 1049	ASTM	USA	Wire Rods, Round Wire and Steel

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