

# Material: SAE J403 | SAE J1397 UNS G10460 - 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 G10460 - 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 %	0.430 - 0.500	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
			590 min.
			Yield Strength in Mpa
			320 min.
			Elongation in %
			15 min.
			Reduction of Area in %
			40 min.
			Hardness in HB
			170 max.
			Impact in Joule
			-

Cross Reference Table			
Material	Standard	Country	Grade Belong to the Industry
1046	SAE	USA	Steel
1046	AISI	USA	Steel and Bar
A 830 G10460	ASTM	USA	Plate and Steel
A 830 1046	ASTM	USA	Plate and Steel
A 576 10L46	ASTM	USA	Bar
A 510 1046	ASTM	USA	Wire Rod
A 29 1046	ASTM	USA	Steel and Bar

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