

**Material: SAE J403 | SAE J1397 UNS G12144 - 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 G12144 - 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 max.	As Raw or Annealing or Normalizing or Hardening and Tempering
Manganese	Mn %	0.850 - 1.050	
Phosphorus	P %	0.040 - 0.090	
Sulphur	S %	0.260 - 0.350	
Lead	Pb %	0.150 - 0.350	
Iron	Fe %	Balance	
-	-	-	
-	-	-	
-	-	-	
-	-	-	
Mechanical Properties			
Tensile Strength in Mpa			390 min.
Yield Strength in Mpa			230 min.
Elongation in %			22 min.
Reduction of Area in %			45 min.
Hardness in BHN			121 max.
Impact in Joule			-

Cross Reference Table			
Material	Standard	Country	Grade Belong to the Industry
12L14	SAE	USA	Bars, Wire Rods, Plates, Strip, Sheets and Tubing
12L14	AISI	USA	Steel and Bar
A 1040 12L14	ASTM	USA	Steel
SA-29 12L14	ASME	USA	Steel
A 510 12L14	ASTM	USA	Wire Rod, Round Wire and Steel
A 519 12L14	ASTM	USA	Tubing
A 576 12L14	ASTM	USA	Steel and Bar

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