

# **Material: SAE J403 | SAE J1397 UNS G10740 - Hot Rolled Standard Specification For Carbon Steel Compositions For Forging To Hot-Rolled Plate and Steel**

## **Group: Ferrous Mild Steel Alloys**

**Sub Group: SAE J403 / SAE J1397 UNS G10740 - Hot Rolled Carbon Steel Compositions For Forging To Hot-Rolled Plate and Steel**

**Application:** Intended for Valve, Pump, General Engineering, Automotive and Other Industries

### **Grade Belongs to the Industry: Plate and Steel**

Chemical Composition			Heat Treatment
Carbon	C %	0.650 - 0.750	As Raw or Annealing or Normalizing or Hardening and Tempering
Manganese	Mn %	0.600 - 0.900	
Phosphorus	P %	0.030 max.	
Sulphur	S %	0.030 max.	
Silicon	Si %	0.150 - 0.400	
Iron	Fe %	Balance	
-	-	-	
-	-	-	
-	-	-	
-	-	-	
Mechanical Properties			
Tensile Strength in Mpa			650 - 720
Yield Strength in Mpa			400 min.
Elongation in %			10 min.
Reduction of Area in %			30 - 45
Hardness in HB			192 - 217
Impact in Joule			-

Cross Reference Table			
Material	Standard	Country	Grade Belong to the Industry
1074	SAE	USA	Steel
1074	SAE	USA	Steel and Bar
A 1040 1074	ASTM	USA	Steel
A 29 1074	ASTM	USA	Steel and Bar
A 510 1074	ASTM	USA	Steel
A 682 G10740	ASTM	USA	Steel and Strip
A 682 Grade 1074	ASTM	USA	Steel and Strip

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