

Material: SAE J403 | SAE J1397 UNS G10780 - Hot Rolled Standard Specification For Carbon Steel Compositions For Forging To Hot-Rolled Bars, To Wire Rods, Plates, Strip, Sheets and Tubing

Group: Ferrous Mild Steel Alloys

Sub Group: SAE J403 / SAE J1397 UNS G10780 - Hot Rolled Carbon Steel Compositions For Forging To Hot-Rolled 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 %	0.700 - 0.850	As Raw or Annealing or Normalizing or Hardening and Tempering
Manganese	Mn %	0.300 - 0.600	
Phosphorus	P %	0.030 max.	
Sulphur	S %	0.050 max.	
Iron	Fe %	Balance	
-	-	-	
-	-	-	
-	-	-	
-	-	-	
-	-	-	
Mechanical Properties			
Tensile Strength in Mpa			690 min.
Yield Strength in Mpa			380 min.
Elongation in %			12 min.
Reduction of Area in %			30 min.
Hardness in BHN			207 max.
Impact in Joule			-

Cross Reference Table			
Material	Standard	Country	Grade Belong to the Industry
1078	SAE	USA	Steel
1078	AISI	USA	Steel and Bar
A 830 G10780	ASTM	USA	Plate and Steel
A 713 G10780	ASTM	USA	Steel and Wire
A 576 10L78	ASTM	USA	Steel and Bar
A 830 1078	ASTM	USA	Plate and Steel
A 713 Grade 1078	ASTM	USA	Steel and Wire

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