

## Material - SAE J403 I 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 I 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		
Manganese	Mn %	0.700 - 1.000	As Raw or Annealing or Normalizing or Hardening and Tempering	
Phosphorus	P %	0.030 max.		
Sulphur	S %	0.050 max.		· ·
Iron	Fe %	Balance		ng
-	-	-		
-	-	-		
-	-	-		
-	7	-	Mechanical Pro	operties
-	-	-	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.
-	-		Impac <mark>t in Joule</mark>	-

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		

Further any inquiry to discuss with Gravity Cast Pvt. Ltd. – Gravity Group of Companies team member Call on +918469160029, or email marketing@gravitycastindia.com

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