

## Material - SAE J403 I SAE J1397 UNS G10490 - Cold Drawn

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 G10490 - Cold Drawn 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 %	0.460 - 0.530	_	
Manganese	Mn %	0.600 - 0.900	As Raw or Annealing or Normalizing or Hardening and Tempering	
Phosphorus	Р%	0.030 max.		
Sulphur	S %	0.050 max.		
Iron	Fe %	Balance		
-	-	-		
-	-	-		
-	-	-		
-	-	-	Mechanical Properties	
-	-	-	Tensile Strength in Mpa	670 min.
-	-	-	Yield Strength in Mpa	560 min.
-	-	-	Elongation in %	10 min.
-	-	-	Reduction of Area in %	30 min.
-	-	-	Hardness in HB	197 max.
-	-		Impact in Joule	-

Cross Reference Table				
Material	Standard	Country	Grade Belong to the Industry	
1049	SAE	USA	Steel	
1049	AISI	USA	Bar	
A 830 G10490	ASTM	USA	Plate and Steel	
A 830 1049	ASTM	USA	Plate and Steel	
A 576 10L49	ASTM	USA	Steel	
A 29 1049	ASTM	USA	Steel and Bar	
A 510 1049	ASTM	USA	Wire Rods, Round Wire and Steel	

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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