

Material - SAE J403 I SAE J1397 UNS G11460 - 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 G11460 - 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 %	0.420 - 0.490		
Manganese	Mn %	0.700 - 1.000		
Phosphorus	P %	0.030 max.	As Raw or Annealing or Normalizing or Hardening and	
Sulphur	S %	0.080 - 0.130	Tempering	
Iron	Fe %	Balance	rempening	
-	-	-		
-	-	-		
-	-	-		
-	-	-	Mechanical Properties	
-	-	-	Tensile Strength in Mpa	650 min.
-	-		Yield Strength in Mpa	550 min.
-	-	-	Elongation in %	12 min.
-	-	-	Reduction of Area in %	35 min.
-	-	-	Hardness in BHN	187 max.
-	-	-	Impact in Joule	-

Cross Reference Table				
Material	Standard	Country	Grade Belong to the Industry	
1146	SAE	USA	Bars, Wire Rods, Plates, Strip, Sheets and Tubing	
1146	AISI	USA	Steel and Bar	
A 1040 1146	ASTM	USA	Steel	
A 29 1146	ASTM	USA	Steel and Bar	
A 510 1146	ASTM	USA	Wire Rod, Round Wire and Steel	
A 576 11L46	ASTM	USA	Steel and Bar	
A 576 1146	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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