

Material - SAE J403 I SAE J1397 UNS G12144 - 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 G12144 - 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 %	0.150 max.		
Manganese	Mn %	0.850 - 1.050	As Raw or Annealing or Normalizing or Hardening and Tempering	
Phosphorus	P %	0.040 - 0.090		
Sulphur	S %	0.260 - 0.350		
Lead	Pb %	0.150 - 0.350		
Iron	Fe %	Balance		
-	-	-		
-	-	-		
-	-	-	Mechanical Properties	
-	-	-	Tensile Strength in Mpa	540 min.
-	-	-	Yield Strength in Mpa	410 min.
-	-	-	Elongation in %	10 min.
-	-	-	Reduction of Area in %	35 min.
-	-	-	Hardness in BHN	163 max.
-	-	-	Impac <mark>t in Joule</mark>	-

0.01.711					
Cross Reference Table					
Material	Standard	Country	Grade Belong to the Industry		
12L14	SAE	USA	Bars, Wire Rods, Plates, Strip, Sheets and Tubing		
12L14	AISI	USA	Steel and Bar		
A 1040 12L14	ASTM	USA	Steel		
SA-29 12L14	ASME	USA	Steel		
A 510 12L14	ASTM	USA	Wire Rod, Round Wire and Steel		
A 519 12L14	ASTM	USA	Tubing		
A 576 12L14	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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