



## **Material - ASTM A 1040 12L14**

Standard Specification For Carbon Steel Compositions For Forging To Hot-Rolled And Cold-Finished Steel

**Group - Ferrous Mild Steel Alloys** 

Sub Group - ASTM A 1040 12L14 Carbon Steel Compositions For Forging To Hot-Rolled And Cold-Finished Steel Application - Intended for Valve, Pump, General Engineering, Automotive and Other Industries Grade Belongs to the Industry - Steel

Chemical Composition			Heat Treatment	
Carbon	C %	0.150 max.		
Manganese	Mn %	0.850 - 1.150	As Raw or Annealing or Normalizing or Hardening and Tempering	
Phosphorus	Р%	0.040 - 0.090		lizing or Hardoning and
Sulphur	S %	0.260 - 0.350		
Lead	Pb %	0.150 - 0.350		
Iron	Fe %	Balance		
-	-	-		
-	-	-		
-	-	-	Mechanical Properties	
-	-	-	Tensile Strength in Mpa	390 - 540
-	-	-	Yield Strength in Mpa	230 min.
-	-	-	Elongation in %	10 min.
-	-	-	Reduction of Area in %	35 - 45
-	-	-	Hardness in HB	121 - 163
-	-	-	Impact in Joule	-

Cross Reference Table					
Material	Standard	Country	ry Grade Belong to the Industry		
G12140	UNS	USA	Bars, Wire Rods, Plates, Strip, Sheets and Tubing		
12L14	SAE	USA	Bars, Wire Rods, Plates, Strip, Sheets and Tubing		
12L14	AISI	USA	Steel and Bar		
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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