



Material - AISI 12L14

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

Group - Ferrous Mild Steel Alloys

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

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		olizing or Hordoning and
Sulphur	S %	0.260 - 0.350		· ·
Lead	Pb %	0.150 - 0.350		
Aluminium	Al %	0.020 max.		
Niobium	Nb %	0.025 max.		
Vanadium	V %	0.050 max.		
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
-	-	-	Impa <mark>ct in Joule</mark>	-

Cross Reference Table					
Material	Standard	Country 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		
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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