

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.	As Raw or Annealing or Normalizing or Hardening and Tempering	
Manganese	Mn %	0.850 - 1.150		
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 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 -	
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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
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

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