

# Material - ASTM A 519 12L14

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

#### **Group - Ferrous Mild Steel Alloys**

Sub Group - ASTM A 519 12L14 Carbon Steel Compositions For Forging To Hot-Rolled And Cold-Finished Tubing Application - Intended for Valve, Pump, General Engineering, Automotive and Other Industries Grade Belongs to the Industry - Tubing

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		alizing or Hardoning and
Sulphur	S %	0.260 - 0.350		<b>u</b>
Lead	Pb %	0.150 - 0.350		пg
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
-	-	-	Hardn <mark>ess in HB</mark>	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	
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 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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