

## Material - ASTM A 512 Grade 1012

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

**Group - Ferrous Mild Steel Alloys** 

Sub Group - ASTM A 512 Grade 1012 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 %	0.100 - 0.150		
Manganese	Mn %	0.300 - 0.600	As Raw or Annealing or Normalizing or Hardening and Tempering	
Phosphorus	Р%	0.040 max.		lizing or Llordoning and
Sulphur	S %	0.450 max.		
Iron	Fe %	Balance		IS
-	-	-		
-	-	-		
-	-	-		
-	-	-	Mechanical Properties	
-	-	-	Tensile Strength in Mpa	330 - 370
-	-	-	Yield Strength in Mpa	180 min.
-	-	-	Elongation in %	19 min.
-	-	-	Reduction of Area in %	40 - 50
-	-	-	Hardn <mark>ess in HB</mark>	95 - 105
-	-	-	Impac <mark>t in Joule</mark>	-
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Cross Reference Table				
Material	Standard	Country	Grade Belong to the Industry	
G10120	UNS	USA	Bars, Wire Rods, Plates, Strip, Sheets and Tubing	
1012	SAE	USA	Bars, Wire Rods, Plates, Strip, Sheets and Tubing	
1012	AISI	USA	Bars, Wire Rods, Plates, Strip, Sheets and Tubing	
A 1040 1012	ASTM	USA	Bars, Wire Rods, Plates, Strip, Sheets and Tubing	
A 29 1012	ASTM	USA	Bar	
A 29 M1012	ASTM	USA	Bar	
A 510 1012	ASTM	USA	Wire Rod	

## 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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