



Material - ASTM A 29 M1012

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

Group - Ferrous Mild Steel Alloys

Sub Group - ASTM A 29 M1012 Carbon Steel Compositions For Forging To Hot-Rolled And Cold-Finished Bars

Application - Intended for Valve, Pump, General Engineering, Automotive and Other Industries

Grade Belongs to the Industry - Bar

Chemical Composition			Heat Treatment	
Carbon	C %	0.090 - 0.160	As Raw or Annealing or Normalizing or Hardening and Tempering	
Manganese	Mn %	0.250 - 0.600		
Phosphorus	P %	0.040 max.		
Sulphur	S %	0.050 max.		
Aluminium	Al %	0.020 max.		
Niobium	Nb %	0.025 max.		
Vanadium	V %	0.050 max.		
Iron	Fe %	Balance		
-	-	-		
-	-	-		
-	-	-		
-	-	-		
-	-	-		
-	-	-		
-	-	-		
			Mechanical Properties	
			Tensile Strength in Mpa	330 - 370
			Yield Strength in Mpa	180 min.
			Elongation in %	19 min.
			Reduction of Area in %	40 - 50
			Hardness in HB	95 - 105
			Impact in Joule	-

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 510 1012	ASTM	USA	Wire Rod
A 512 Grade 1012	ASTM	USA	Tubing

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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