



Material - ASTM A 510 1042

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

Group - Ferrous Mild Steel Alloys

Sub Group - ASTM A 510 1042 Carbon Steel Compositions For Forging To Hot-Rolled And Cold-Finished Wire Rod

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

Grade Belongs to the Industry - Wire Rod

Chemical Composition			Heat Treatment			
Carbon	C %	0.400 - 0.470	As Raw or Annealing or Normalizing or Hardening and Tempering			
Manganese	Mn %	0.600 - 0.900				
Phosphorus	P %	0.040 max.				
Sulphur	S %	0.050 max.				
Boron	B %	0.0008 max.				
Iron	Fe %	Balance				
-	-	-				
-	-	-	Mechanical Properties			
-	-	-			Tensile Strength in Mpa	550 - 610
-	-	-			Yield Strength in Mpa	300 min.
-	-	-			Elongation in %	12 min.
-	-	-			Reduction of Area in %	35 - 45
-	-	-			Hardness in HB	163 - 179
-	-	-			Impact in Joule	-
-	-	-				

Cross Reference Table			
Material	Standard	Country	Grade Belong to the Industry
G10420	UNS	USA	Bars, Wire Rods, Plates, Strip, Sheets and Tubing
1042	SAE	USA	Steel
1042	AISI	USA	Bar
A 1040 1042	ASTM	USA	Steel
A 29 1042	ASTM	USA	Bar
A 576 10L42	ASTM	USA	Steel and Bar
A 830 1042	ASTM	USA	Plate and Steel

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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