



Material - ASTM A 1040 1021

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 1021 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	
C %	0.180 - 0.230	As Raw or Annealing or Normalizing or Hardening and Tempering		
Mn %	0.600 - 0.900			
P %	0.030 max.		lizing or Hardoning and	
S %	0.035 max.		•	
В%	0.0005 - 0.003		ig	
Cu %	0.200 max.			
Si %	0.100 max.			
Fe %	Balance			
-		Mechanical Pro	perties	
-	-	Tensile Strength in Mpa	345 min.	
-	-	Yield Strength in Mpa	230 min.	
-	-	Elongation in %	5 min.	
-	-	Reduction of Area in %	40 - 48	
-	-	Hardness in HB	116 - 131	
-	-	Impact in Joule	-	
	P % S % B % Cu % Si % Fe %	P % 0.030 max. S % 0.035 max. B % 0.0005 - 0.003 Cu % 0.200 max. Si % 0.100 max. Fe % Balance	P % 0.030 max. S % 0.035 max. B % 0.0005 - 0.003 Cu % 0.200 max. Si % 0.100 max. Fe % Balance	

Cross Reference Table				
Material	Standard	Country Grade Belong to the Industry		
G10210	UNS	USA	Bars, Wire Rods and Tubing	
1021	SAE	USA	Bending and Flaring	
1021	AISI	USA	Tubing	
A 29 1021	ASTM	USA	Steel and Bar	
A 510 1021	ASTM	USA	Wire Rod and Round Wire	
A 512 Grade 1021	ASTM	USA	Tubing	
A 513 Grade 1021	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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