

Material: ASTM A 510 1021

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

Group: Ferrous Mild Steel Alloys

Sub Group: ASTM A 510 1021 Carbon Steel Compositions For Forging To Hot-Rolled And Cold-Finished Wire Rod and Round Wire

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

Grade Belongs to the Industry: Wire Rod and Round Wire

Chemical Composition			Heat Treatment
Carbon	C %	0.180 - 0.230	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			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			-

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 1040 1021	ASTM	USA	Steel
A 29 1021	ASTM	USA	Steel and Bar
A 512 Grade 1021	ASTM	USA	Tubing
A 513 Grade 1021	ASTM	USA	Tubing

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