

Material: ASTM A 510 1022

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 1022 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 %	0.700 - 1.000	
Phosphorus	P %	0.040 max.	
Sulphur	S %	0.050 max.	
Boron	B %	0.0008 Max.	
Iron	Fe %	Balance	
-	-	-	
-	-	-	
-	-	-	
-	-	-	
Mechanical Properties			
			Tensile Strength in Mpa
			379 min.
			Yield Strength in Mpa
			230 min.
			Elongation in %
			15 min.
			Reduction of Area in %
			40 - 47
			Hardness in HB
			121 - 137
			Impact in Joule
			-

Cross Reference Table			
Material	Standard	Country	Grade Belong to the Industry
G10220	UNS	USA	Bars, Wire Rods and Tubing
1022	SAE	USA	Steel, Bar and Forging
1022	AISI	USA	Steel, Bar and Forging
A 1040 1022	ASTM	USA	Steel
A 108 Grade 1022	ASTM	USA	Steel and Bar
A 29 1022	ASTM	USA	Steel and Bar
A 513 Grade 1022	ASTM	USA	Tubing

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