

## Material - ASTM A 510 1020

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 1020 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		
Manganese	Mn %	0.300 - 0.600	As Raw or Annealing or Normalizing or Hardening and Tempering	
Phosphorus	Р%	0.040 max.		
Sulphur	S %	0.050 max.		
Boron	В %	0.0008 max.		
Iron	Fe %	Balance		
-	-	-		
-	-	-		
-	-	-	Mechanical Properties	
-	-	-	Tensile Strength in Mpa	330 - 690
-	-	-	Yield Strength in Mpa	195 min.
-	-	-	Elongation in %	5 min.
-	-	-	Reduction of Area in %	40 - 50
-	-	-	Hardn <mark>ess in HB</mark>	111 - 121
-	-	-	Impac <mark>t in Joule</mark>	47.6 - 69.7 J @ RT

Cross Reference Table				
Material	Standard	Country Grade Belong to the Industry		
G10200	UNS	USA	Bars, Wire Rods and Tubing	
1020	SAE	USA	Sheet, Strip and Plate	
1020	AISI	USA	Sheet, Strip and Plate	
A 1040 1020	ASTM	USA	Steel	
A 108 Grade 1020	ASTM	USA	Steel and Bar	
A 29 1020	ASTM	USA	Steel and Bar	
A 29 M1020	ASTM	USA	Steel and Bar	

## 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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