



Material - ASTM A 1040 1020

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

Group - Ferrous Mild Steel Alloys

Sub Group - ASTM A 1040 1020 Carbon Steel Compositions For Forging To Hot-Rolled And Cold-Finished Sheet

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

Grade Belongs to the Industry - Sheet

Chemical Composition			Heat Treatment	
Carbon	C %	0.180 - 0.230	As Raw or Annealing or Normalizing or Hardening and Tempering	
Manganese	Mn %	0.300 - 0.600		
Phosphorus	P %	0.030 max.		
Sulphur	S %	0.035 max.		
Copper	Cu %	0.200 max.		
Boron	B %	0.0005 - 0.003		
Silicon	Si %	0.100 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
-	-	-	Hardness in HB	111 - 121
-	-	-	Impact in Joule	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 108 Grade 1020	ASTM	USA	Steel and Bar
A 29 1020	ASTM	USA	Steel and Bar
A 29 M1020	ASTM	USA	Steel and Bar
A 510 1020	ASTM	USA	Wire Rod and Round Wire

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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