



Material - ASTM A 29 1020

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

Group - Ferrous Mild Steel Alloys

Sub Group - ASTM A 29 1020 Carbon Steel Compositions For Forging To Hot-Rolled And Cold-Finished Steel and Bar Application - Intended for Valve, Pump, General Engineering, Automotive and Other Industries Grade Belongs to the Industry - Steel and Bar

Chemical Composition			Heat Treatment	
Carbon	C %	0.180 - 0.230		
Manganese	Mn %	0.300 - 0.600	As Raw or Annealing or Normalizing or Hardening an Tempering	
Phosphorus	P %	0.040 max.		alizing or Hardoning and
Sulphur	S %	0.050 max.		· ·
Aluminium	Al %	0.020 max.		iiig
Boron	В %	0.0005 - 0.003		
Copper	Cu %	0.200 max.		
Niobium	Nb %	0.025 max.		
Silicon	Si %	0.100 max.	Mechanical Properties	
Vanadium	V %	0.050 max.	Tensile Strength in Mpa	330 - 690
Iron	Fe %	Balance	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	ountry 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 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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