

Material - ASTM A 29 M1020

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 M1020 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 %	0.170 - 0.240		
Manganese	Mn %	0.250 - 0.600	As Raw or Annealing or Normalizing or Hardening and Tempering	
Phosphorus	P %	0.040 max.		
Sulphur	S %	0.050 max.		· ·
Aluminium	Al %	0.020 max.		
Niobium	Nb %	0.025 max.		
Silicon	Si %	0.100 max.		
Vanadium	V %	0.050 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 1040 1020	ASTM	USA	Steel		
A 108 Grade 1020	ASTM	USA	Steel and Bar		
A 29 1020	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

All information in our data sheets and website is indicative only and is not intended to be a substitute for the full specification from which it is extracted. It is intended to provide typical values to allow comparison between metal alloy option rather than a definitive statement of mechanical performance or suitability for a particular application as these will vary with temperature, product type and product application. It is presented apart from contractual obligations and does not constitute any guarantee of properties or of processing or application possibilities in individual cases. Our warranties and liabilities are stated exclusively in our terms of business.