



**GRAVITY CAST PVT. LTD.**  
GRAVITY GROUP OF COMPANIES

## Material - ASTM A 108 Grade 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 108 Grade 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	As Raw or Annealing or Normalizing or Hardening and Tempering	
Manganese	Mn %	0.300 - 0.600		
Phosphorus	P %	0.030 max.		
Sulphur	S %	0.050 max.		
Lead	Pb %	0.150 - 0.350		
Silicon	Si %	0.100 max.		
Iron	Fe %	Balance		
-	-	-	<b>Mechanical Properties</b> 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	
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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 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](mailto: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.

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