



## Material - SAE 1070

### Standard Specification For Carbon Steel Compositions For Forging To Hot-Rolled Steel

Group - Ferrous Mild Steel Alloys

Sub Group - SAE 1070 Carbon Steel Compositions For Forging To Hot-Rolled Steel

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

Grade Belongs to the Industry - Steel

Chemical Composition			Heat Treatment	
Carbon	C %	0.650 - 0.750	As Raw or Annealing or Normalizing or Hardening and Tempering	
Manganese	Mn %	0.600 - 0.900		
Phosphorus	P %	0.030 max.		
Sulphur	S %	0.035 max.		
Boron	B %	0.0005 - 0.003		
Chromium	Cr %	0.150 max.		
Copper	Cu %	0.200 max.		
Molybdenum	Mo %	0.060 max.		
Nickel	Ni %	0.200 max.		
Lead	Pb %	0.150 - 0.350		
Iron	Fe %	Balance	<b>Mechanical Properties</b> Tensile Strength in Mpa      640 - 1586 Yield Strength in Mpa      390 min. Elongation in %      10 min. Reduction of Area in %      30 min. Hardness in HB      192 - 212 Impact in Joule      -	
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Cross Reference Table			
Material	Standard	Country	Grade Belong to the Industry
G10700	UNS	USA	Bars, Wire Rods, Plates, Strip, Sheets and Tubing
1070	AISI	USA	Steel and Bar
A 510 1070	ASTM	USA	Wire Rods, Round Wire and Steel
A 576 10L70	ASTM	USA	Steel and Bar
A 713 G10700	ASTM	USA	Steel and Wire
A 713 Grade 1070	ASTM	USA	Steel and Wire
A 830 1070	ASTM	USA	Plate and Steel

**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)**

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