

## Material: SAE 1020

### Standard Specification For Carbon Steel Compositions For Forging To Hot-Rolled And Cold-Finished Sheet, Strip and Plate

**Group:** Ferrous Mild Steel Alloys

**Sub Group:** SAE 1020 Carbon Steel Compositions For Forging To Hot-Rolled And Cold-Finished Sheet, Strip and

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

**Grade Belongs to the Industry:** Sheet, Strip and Plate

Chemical Composition			Heat Treatment	
Carbon	C %	0.170 - 0.230	As Raw or Annealing or Normalizing or Hardening and Tempering	
Manganese	Mn %	0.300 - 0.600		
Phosphorus	P %	0.040 max.		
Sulphur	S %	0.050 max.		
Iron	Fe %	Balance		
-	-	-	<b>Mechanical Properties</b> Tensile Strength in Mpa 345 - 520.5 Yield Strength in Mpa 210 min Elongation in % 15 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	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 29 M1020	ASTM	USA	Steel and Bar
A 510 1020	ASTM	USA	Wire Rod and Round Wire

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