

## Material: SAE 1021

### Standard Specification For Carbon Steel Compositions For Forging To Hot-Rolled And Cold-Finished Bending and Flaring

**Group:** Ferrous Mild Steel Alloys

**Sub Group:** SAE 1021 Carbon Steel Compositions For Forging To Hot-Rolled And Cold-Finished Bending and Flaring

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

**Grade Belongs to the Industry:** Bending and Flaring

Chemical Composition			Heat Treatment	
Carbon	C %	0.180 - 0.230	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.		
Iron	Fe %	Balance		
-	-	-		
-	-	-	<b>Mechanical Properties</b> Tensile Strength in Mpa 415 min. Yield Strength in Mpa 230 min. Elongation in % 15 min. Reduction of Area in % 40 - 48 Hardness in HB 116 - 131 Impact in Joule -	
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Cross Reference Table			
Material	Standard	Country	Grade Belong to the Industry
G10210	UNS	USA	Bars, Wire Rods and Tubing
1021	AISI	USA	Tubing
A 1040 1021	ASTM	USA	Steel
A 29 1021	ASTM	USA	Steel and Bar
A 510 1021	ASTM	USA	Wire Rod and Round Wire
A 512 Grade 1021	ASTM	USA	Tubing
A 513 Grade 1021	ASTM	USA	Tubing

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Customer Care: +91-99090 45075 Email: [info@icastllp.com](mailto:info@icastllp.com)