

Material: SAE 1010

Standard Specification For Carbon Steel Compositions For Forging To Hot-Rolled And Cold-Finished Sheets and Tubing

Group: Ferrous Mild Steel Alloys

Sub Group: SAE 1010 Carbon Steel Compositions For Forging To Hot-Rolled And Cold-Finished Sheets and Tubing

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

Grade Belongs to the Industry: Sheet and Tubing

Chemical Composition			Heat Treatment	
Carbon	C %	0.150 max.	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		
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-	-	-	Mechanical Properties Tensile Strength in Mpa 320 - 653.3 Yield Strength in Mpa 180 min. Elongation in % 20 min. Reduction of Area in % 40 - 50 Hardness in HB 95 - 105 Impact in Joule -	
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Cross Reference Table			
Material	Standard	Country	Grade Belong to the Industry
G10100	UNS	USA	Bars, Wire Rods, Plates, Strip, Sheets and Tubing
1010	AISI	USA	Tubing
A 1040 1010	ASTM	USA	Bars, Wire Rods, Plates, Strip, Sheets and Tubing
A 108 Grade 1010	ASTM	USA	Bar and Sheet
A 29 1010	ASTM	USA	Bar
A 29 M1010	ASTM	USA	Bar
A 510 1010	ASTM	USA	Bars, Wire Rods, Plates, Strip, Sheets and Tubing

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Customer Care: +91-99090 45075 Email: info@icastllp.com