

Material: ASTM A 830 1038

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

Group: Ferrous Mild Steel Alloys

Sub Group: ASTM A 830 1038 Carbon Steel Compositions For Forging To Hot-Rolled And Cold-Finished Plates and Steel

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

Grade Belongs to the Industry: Plates and Steel

Chemical Composition			Heat Treatment	
Carbon	C %	0.350 - 0.420	As Raw or Annealing or Normalizing or Hardening and Tempering	
Manganese	Mn %	0.600 - 0.900		
Phosphorus	P %	0.030 max.		
Sulphur	S %	0.030 max.		
Silicon	Si %	0.150 - 0.400		
Iron	Fe %	Balance		
-	-	-		
-	-	-	Mechanical Properties Tensile Strength in Mpa 520 - 570 Yield Strength in Mpa 280 min. Elongation in % 12 min. Reduction of Area in % 35 - 40 Hardness in HB 149 - 163 Impact in Joule -	
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Cross Reference Table			
Material	Standard	Country	Grade Belong to the Industry
G10380	UNS	USA	Bars, Wire Rods, Plates, Strip, Sheets and Tubing
1038	SAE	USA	Bars, Wire Rods, Plates, Strip, Sheets and Tubing
1038	AISI	USA	Steel and Bar
A 1040 1038	ASTM	USA	Steel
A 29 1038	ASTM	USA	Steel and Bar
A 510 1038	ASTM	USA	Wire Rod and Round Wire
A 576 10L38	ASTM	USA	Steel and Bar

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