

Material: ASTM A 830 1042

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

Group: Ferrous Mild Steel Alloys

Sub Group: ASTM A 830 1042 Carbon Steel Compositions For Forging To Hot-Rolled And Cold-Finished Plate and Steel

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

Grade Belongs to the Industry: Plate and Steel

Chemical Composition			Heat Treatment	
Carbon	C %	0.400 - 0.470	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 550 - 610 Yield Strength in Mpa 300 min. Elongation in % 12 min. Reduction of Area in % 35 - 45 Hardness in HB 163 - 179 Impact in Joule -	
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Cross Reference Table			
Material	Standard	Country	Grade Belong to the Industry
G10420	UNS	USA	Bars, Wire Rods, Plates, Strip, Sheets and Tubing
1042	SAE	USA	Steel
1042	AISI	USA	Bar
A 1040 1042	ASTM	USA	Steel
A 29 1042	ASTM	USA	Bar
A 510 1042	ASTM	USA	Wire Rod
A 576 10L42	ASTM	USA	Steel and Bar

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