

Material: ASTM A 830 G10460

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 G10460 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 %	0.430 - 0.500	As Raw or Annealing or Normalizing or Hardening and Tempering
Manganese	Mn %	0.700 - 1.000	
Phosphorus	P %	0.035 max.	
Sulphur	S %	0.040 max.	
Silicon	Si %	0.150 - 0.400	
Iron	Fe %	Balance	
-	-	-	
-	-	-	
-	-	-	
-	-	-	
Mechanical Properties			
Tensile Strength in Mpa			590 - 650
Yield Strength in Mpa			320 min.
Elongation in %			12 min.
Reduction of Area in %			35 - 45
Hardness in HB			170 - 187
Impact in Joule			-

Cross Reference Table			
Material	Standard	Country	Grade Belong to the Industry
G10460	UNS	USA	Bars, Wire Rods, Plates, Strip, Sheets and Tubing
1046	SAE	USA	Steel
1046	AISI	USA	Steel and Bar
A 830 1046	ASTM	USA	Plate and Steel
A 576 10L46	ASTM	USA	Bar
A 510 1046	ASTM	USA	Wire Rod
A 29 1046	ASTM	USA	Steel and Bar

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