

## Material: ASTM A 830 G15410

### 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 G15410 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 %	0.360 - 0.440	As Raw or Annealing or Normalizing or Hardening and Tempering	
Manganese	Mn %	1.350 - 1.650		
Phosphorus	P %	0.035 max.		
Sulphur	S %	0.040 max.		
Silicon	Si %	0.150 - 0.400		
Iron	Fe %	Balance		
-	-	-		
-	-	-	<b>Mechanical Properties</b> Tensile Strength in Mpa 630 min. Yield Strength in Mpa 350 min. Elongation in % 10 min. Reduction of Area in % 30 - 45 Hardness in HB 184 - 321 Impact in Joule -	
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Cross Reference Table			
Material	Standard	Country	Grade Belong to the Industry
G15410	SAE	USA	Bars, Wire Rods, Plates, Strip, Sheets and Tubing
1541	SAE	USA	Bars, Plates, Strip, Sheets, Tubing and Forging
1541	AISI	USA	Bar and Steel
A 29 1541	ASTM	USA	Bar and Steel
A 311 1541 Class A	ASTM	USA	Bar and Steel
A 311 1541 Class B	ASTM	USA	Bar and Steel
A 510 1541	ASTM	USA	Wire Rod, Round Wire and Steel

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