

# Material: ASTM A 830 G10650

## Standard Specification For Carbon Steel Compositions For Forging To Hot-Rolled Plate and Steel

**Group:** Ferrous Mild Steel Alloys

**Sub Group:** ASTM A 830 G10650 Carbon Steel Compositions For Forging To Hot-Rolled 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 %	0.600 - 0.700	As Raw or Annealing or Normalizing or Hardening and Tempering			
Manganese	Mn %	0.600 - 0.900				
Phosphorus	P %	0.035 max.				
Sulphur	S %	0.040 max.				
Silicon	Si %	0.150 - 0.400				
Iron	Fe %	Balance				
Balance	-	-				
-	-	-	<b>Mechanical Properties</b>			
-	-	-				
-	-	-			Tensile Strength in Mpa	630 - 690
-	-	-			Yield Strength in Mpa	380 min.
-	-	-			Elongation in %	10 min.
-	-	-			Reduction of Area in %	30 - 45
-	-	-			Hardness in HB	187 - 207
-	-	-			Impact in Joule	-
-	-	-				
-	-	-				

Cross Reference Table			
Material	Standard	Country	Grade Belong to the Industry
G10650	UNS	USA	Bars, Wire Rods, Plates, Strip, Sheets and Tubing
1065	SAE	USA	Plate, Strip, Sheet and Tubing
1065	AISI	USA	Steel and Bar
A 713 G10650	ASTM	USA	Steel and wire
A 682 G10650	ASTM	USA	Steel and Strip
A 682 Grade 1065	ASTM	USA	Steel and Strip
A 684 Grade 1065	ASTM	USA	Steel and Strip

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