

**Material: ASTM A 682 Grade 1065**

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

## **Group: Ferrous Mild Steel Alloys**

## **Sub Group: ASTM A 682 Grade 1065 Carbon Steel Compositions For Forging To Hot-Rolled Steel and Strip**

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

## Grade Belongs to the Industry: Steel and Trips

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 %	0.030 max.	
Sulphur	S %	0.035 max.	
Silicon	Si %	0.150 - 0.300	
Iron	Fe %	Balance	
-	-	-	
-	-	-	
-	-	-	
-	-	-	
Mechanical Properties			
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 830 G10650	ASTM	USA	Plate and Steel
A 713 G10650	ASTM	USA	Steel and wire
A 682 G10650	ASTM	USA	Steel and Strip
A 684 Grade 1065	ASTM	USA	Steel and Strip

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Customer Care: +91-99090 45075 Email: [info@icastllp.com](mailto:info@icastllp.com)