



## Material - ASTM A 713 G10650

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

**Group - Ferrous Mild Steel Alloys**

**Sub Group - ASTM A 713 G10650r Carbon Steel Compositions For Forging To Hot-Rolled Steel and wire**

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

**Grade Belongs to the Industry - Steel and Wire**

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 %	0.040 max.		
Sulphur	S %	0.050 max.		
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 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

**Further any inquiry to discuss with Gravity Cast Pvt. Ltd. – Gravity Group of Companies team member Call on +918469160029, or email [marketing@gravitycastindia.com](mailto:marketing@gravitycastindia.com)**

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