

## Material: ASTM A 713 G10860

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

**Group:** Ferrous Mild Steel Alloys

**Sub Group:** ASTM A 713 G10860 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 %	0.800 - 0.930	As Raw or Annealing or Normalizing or Hardening and Tempering	
Manganese	Mn %	0.300 - 0.500		
Phosphorus	P %	0.040 max.		
Sulphur	S %	0.050 max.		
Iron	Fe %	Balance		
-	-	-	<b>Mechanical Properties</b> Tensile Strength in Mpa 670 - 770 Yield Strength in Mpa 420 min. Elongation in % 10 min. Reduction of Area in % 25 - 40 Hardness in HB 192 - 229 Impact in Joule -	
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Cross Reference Table			
Material	Standard	Country	Grade Belong to the Industry
G10860	UNS	USA	Bars, Wire Rods, Plates, Strip, Sheets and Tubing
1086	SAE	USA	Steel
1086	AISI	USA	Steel and Bar
A 682 G10860	ASTM	USA	Steel and Strip
A 1040 1086	ASTM	USA	Steel
A 682 Grade 1086	ASTM	USA	Steel and Strip
A 684 Grade 1086	ASTM	USA	Steel and Strip

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