



Material - ASTM A 1040 1086

Standard Specification For Carbon Steel Compositions For Forging To Hot-Rolled Steel

Group - Ferrous Mild Steel Alloys

Sub Group - ASTM A 1040 1086 Carbon Steel Compositions For Forging To Hot-Rolled Steel Application - Intended for Valve, Pump, General Engineering, Automotive and Other Industries Grade Belongs to the Industry - Steel

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 %	0.030 max.		
Sulphur	S %	0.035 max.		· ·
Silicon	Si %	0.150 - 0.300		
Boron	В%	0.0005 - 0.003		
Iron	Fe %	Balance		
-	-	-		
-	-	-	Mechanical Properties	
-	-		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
-	-	-	Impac <mark>t in Joule</mark>	-

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 713 G10860	ASTM	USA	Steel and Wire	
A 682 G10860	ASTM	USA	Steel and Strip	
A 682 Grade 1086	ASTM	USA	Steel and Strip	
A 684 Grade 1086	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

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