

Material: ASTM A 684 Grade 1086

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

Group: Ferrous Mild Steel Alloys

Sub Group: ASTM A 684 Grade 1086 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 Strip

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		
Chromium	Cr %	0.250 max.		
Copper	Cu %	0.300 max.		
Molybdenum	Mo %	0.100 max.		
Nickel	Ni %	0.300 max.		
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
-	-	-	Impact in Joule	-

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 1040 1086	ASTM	USA	Steel
A 682 Grade 1086	ASTM	USA	Steel and Strip

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Customer Care: +91-99090 45075 Email: info@icastllp.com