

Material: AISI 1086

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

Group: Ferrous Mild Steel Alloys

Sub Group: AISI 1086 Carbon Steel Compositions For Forging To Hot-Rolled Steel and Bar

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

Grade Belongs to the Industry: Steel and Bar

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.		
Boron	B %	0.0005 - 0.003		
Aluminium	Al %	0.020 max.		
Copper	Cu %	0.200 max.		
Niobium	Nb %	0.015 max.		
Silicon	Si %	0.100 max.		
Vanadium	V %	0.020 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 -	
-	-	-		
-	-	-		
-	-	-		
-	-	-		
-	-	-		
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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
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
A 684 Grade 1086	ASTM	USA	Steel and Strip

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