Material: AISI 1084

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

Group: *Ferrous Mild Steel Alloys*
Sub Group: *AISI 1084 For Carbon Steel Compositions For Forging To Hot-Rolled And Cold-Finished Steel and Bar*
Application: *Intended for Valve, Pump, General Engineering, Automotive and Other Industries*
Grade Belongs to the Industry: *Steel and Bar*

Chemical Composition		
Carbon	C %	0.800 - 0.930
Manganese	Mn %	0.600 - 0.900
Phosphorus	P %	0.040 max.
Sulphur	S %	0.040 max.
Boron	B %	0.0005 - 0.003
Aluminium	Al %	0.020 min.
Copper	Cu %	0.200 min.
Niobium	Nb %	0.015 min.
Silicon	Si %	0.100 max.
Vanadium	V %	0.020 min.
Iron	Fe %	Balance
-	-	-
-	-	-
-	-	-
-	-	-

Heat Treatment
As Raw or Annealing or Normalizing or Hardening and Tempering

Mechanical Properties	
Tensile Strength in Mpa	690 - 820
Yield Strength in Mpa	450 min.
Elongation in %	10 min.
Reduction of Area in %	25 - 40
Hardness in HB	192 - 241
Impact in Joule	-

Cross Reference Table			
Material	Standard	Country	Grade Belong to the Industry
G10840	UNS	USA	Bars, Wire Rods, Plates, Strip, Sheets and Tubing
1084	SAE	USA	Steel
A 1040 1084	ASTM	USA	Steel
A 29 1084	ASTM	USA	Steel and Bar
A 510 1084	ASTM	USA	Wire Rods, Round Wire and Steel
A 576 10L84	ASTM	USA	Steel and Bar
A 713 G10840	ASTM	USA	Steel and Bar

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