

Material: SAE 1085

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

Group: Ferrous Mild Steel Alloys

Sub Group: SAE 1085 Carbon Steel Compositions For Forging To Hot-Rolled And Cold-Finished Steel

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

Grade Belongs to the Industry: Steel

Chemical Composition		
Carbon	C %	0.800 - 0.930
Manganese	Mn %	0.700 - 1.000
Phosphorus	P %	0.030 max.
Sulphur	S %	0.035 max.
Boron	B %	0.0005 - 0.003
Chromium	Cr %	0.150 max.
Copper	Cu %	0.200 max.
Molybdenum	Mo %	0.060 max.
Nickel	Ni %	0.200 max.
Lead	Pb %	0.150 - 0.350
Iron	Fe %	Balance
-	-	-
-	-	-
-	-	-
-	-	-

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

Mechanical Properties	
Tensile Strength in Mpa	690 - 830
Yield Strength in Mpa	460 min.
Elongation in %	10 min.
Reduction of Area in %	25 - 40
Hardness in HB	192 - 248
Impact in Joule	-

Cross Reference Table			
Material	Standard	Country	Grade Belong to the Industry
G10850	UNS	USA	Bars, Wire Rods, Plates, Strip, Sheets and Tubing
1085	AISI	USA	Plate and Steel
A 1040 1085	ASTM	USA	Steel
A 510 1085	ASTM	USA	Wire Rods, Round Wire and Steel
A 682 G10850	ASTM	USA	Steel and Strip
A 682 Grade 1085	ASTM	USA	Steel and Strip
A 684 Grade 1085	ASTM	USA	Steel and Strip

Disclaimer: All information displayed in our data sheets are for reference purpose only and are sole property of their respective owners. Information and or material are used for educational purposes only. Data at actual may vary at actual and case to case basis. ICAST Alloys LLP does not guarantee validity of these parameters. Warranties and liabilities are exclusive to our terms and conditions of business.

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



+91-99090 45075



info@icastllp.com



ICAST ALLOYS LLP, Plot 2527, Road H1, Kranti Gate, GIDC Metoda, Lodhika, Rajkot-360021, Gujarat, India