

Material: AISI 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			Heat Treatment	
Carbon	C %	0.800 - 0.930	As Raw or Annealing or Normalizing or Hardening and Tempering	
Manganese	Mn %	0.700 - 1.000		
Phosphorus	P %	0.030 max.		
Sulphur	S %	0.030 max.		
Silicon	Si %	0.150 - 0.400		
Iron	Fe %	Balance		
-	-	-		
-	-	-	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 -	
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Cross Reference Table			
Material	Standard	Country	Grade Belong to the Industry
G10850	UNS	USA	Bars, Wire Rods, Plates, Strip, Sheets and Tubing
1085	SAE	USA	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

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