

## Material: ASTM A 510 1085

# Standard Specification For Carbon Steel Compositions For Forging To Hot-Rolled And Cold-Finished Wire Rods, Round Wire and Steel

## **Group: Ferrous Mild Steel Alloys**

**Sub Group: ASTM A 510 1085 Carbon Steel Compositions For Forging To Hot-Rolled And Cold-Finished Wire Rods, Round Wire and Steel**

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

## **Grade Belongs to the Industry: Wire Rods, Round Wire and 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 %	0.040 max.	
Sulphur	S %	0.050 max.	
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
			-

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
1085	AISI	USA	Plate and Steel
A 1040 1085	ASTM	USA	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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