GRAVITY CAST PVT. LTD.
GRAVITY GROUP OF COMPANIES

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		
Carbon	C %	0.800 - 0.930
Manganese	Mn %	0.700 - 1.000
Phosphorus	P %	0.040 max.
Sulphur	S %	0.050 max.
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	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

Further any inquiry to discuss with Gravity Cast Pvt. Ltd. – Gravity Group of Companies team member Call on +918469160029, or email marketing@gravitycastindia.com