



GRAVITY CAST PVT. LTD.
GRAVITY GROUP OF COMPANIES

Material - ASTM A 510 1090

Standard Specification For Carbon Steel Compositions For Forging To Hot-Rolled Wire Rod, Round Wire and Steel

Group - Ferrous Mild Steel Alloys

Sub Group - ASTM A 510 1090 Carbon Steel Compositions For Forging To Hot-Rolled Wire Rod, Round Wire and Steel

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

Grade Belongs to the Industry - Wire Rod, Round Wire and Steel

Chemical Composition			Heat Treatment	
Carbon	C %	0.850 - 0.980	As Raw or Annealing or Normalizing or Hardening and Tempering	
Manganese	Mn %	0.600 - 0.900		
Phosphorus	P %	0.040 max.		
Sulphur	S %	0.050 max.		
Boron	B %	0.0008 max.		
Iron	Fe %	Balance		
-	-	-		
-	-	-		
-	-	-		
-	-	-		
			Mechanical Properties	
			Tensile Strength in Mpa	700 - 840
			Yield Strength in Mpa	460 min.
			Elongation in %	10 min.
			Reduction of Area in %	25 - 40
			Hardness in HB	197 - 248
			Impact in Joule	-

Cross Reference Table				
Material	Standard	Country	Grade Belong to the Industry	
G10900	UNS	USA	Bars, Wire Rods, Plates, Strip, Sheets and Tubing	
1090	SAE	USA	Steel and Wire	
1090	AISI	USA	Steel and Wire	
A 1040 1090	ASTM	USA	Steel	
A 29 1090	ASTM	USA	Steel and Bar	
A 576 10L90	ASTM	USA	Steel and Bar	
A 713 G10900	ASTM	USA	Steel and Wire	

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

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