



# Material - ASTM A 1040 1084

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

#### **Group - Ferrous Mild Steel Alloys**

Sub Group - ASTM A 1040 1084 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		
Manganese	Mn %	0.600 - 0.900	As Raw or Annealing or Normalizing or Hardening and Tempering	
Phosphorus	Р%	0.030 max.		alizing or Hardoning and
Sulphur	S %	0.035 max.		0
Boron	В%	0.0005 - 0.003		
Silicon	Si %	0.100 max.		
Copper	Cu %	0.200 min.		
Iron	Fe %	Balance		
-	-	-	Mechanical Properties	
-	-	-	Tensile Strength in Mpa	690 - 820
	-	-	Yield Strength in Mpa	450 min.
	-	-	Elongation in %	10 min.
	-	-	Reduction of Area in %	25 - 40
-	-		Hardn <mark>ess in HB</mark>	192 - 241
-	-	-	Impa <mark>ct in Joule</mark>	-

Cross Reference Table				
Material	Standard	Country Grade Belong to the Industry		
G10840	UNS	USA	Bars, Wire Rods, Plates, Strip, Sheets and Tubing	
1084	SAE	USA	Steel	
1084	AISI	USA	Steel and Bar	
A 29 1084	ASTM	USA	Steel and Bar	
A 510 1084	ASTM	USA	Wire Rods, Round Wire and Steel	
A 576 10L84	ASTM	USA	Steel and Bar	
A 713 G10840	ASTM	USA	Steel and Bar	

# 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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