



Material - ASTM A 1040 1039

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 1039 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 %	0.370 - 0.440		
Manganese	Mn %	0.700 - 1.000	As Raw or Annealing or Normalizing or Hardening and Tempering	
Phosphorus	Р%	0.030 max.		alizing or Hardoning and
Sulphur	S %	0.035 max.		v
Boron	В%	0.0005 - 0.003		
Silicon	Si %	0.100 max.		
Copper	Cu %	0.200 max.		
Iron	Fe %	Balance		
-	-	-	Mechanical Properties	
-	-	-	Tensile Strength in Mpa	560 - 610
	-	-	Yield Strength in Mpa	300 min.
	-	-	Elongation in %	12 min.
	-	-	Reduction of Area in %	35 - 40
-	-		Hardn <mark>ess in HB</mark>	156 - 179
-	-	-	Impa <mark>ct in Joule</mark>	-

Cross Reference Table				
Material	Standard	Country Grade Belong to the Industry		
G10390	UNS	USA	Bars, Wire Rods, Plates, Strip, Sheets and Tubing	
1039	SAE	USA	Steel	
1039	AISI	USA	Steel and Bar	
A 29 1039	ASTM	USA	Steel and Bar	
A 510 1039	ASTM	USA	Wire Rod and Round Wire	
A 576 10L39	ASTM	USA	Steel and Bar	
A 830 1039	ASTM	USA	Plates and Steel	

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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