



## Material - ASTM A 29 1039

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

**Group - Ferrous Mild Steel Alloys** 

Sub Group - ASTM A 29 1039 Carbon Steel Compositions For Forging To Hot-Rolled And Cold-Finished Steel and Bar Application - Intended for Valve, Pump, General Engineering, Automotive and Other Industries Grade Belongs to the Industry - Steel and Bar

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	P %	0.040 max.		lizing or Hardoning and
Sulphur	S %	0.050 max.		· ·
Boron	В %	0.0005 - 0.003		
Aluminium	Al %	0.020 max.		
Copper	Cu %	0.200 max.		
Niobium	Nb %	0.015 max.		
Silicon	Si %	0.100 max.	Mechanical Properties	
Vanadium	V %	0.020 max.	Tensile Strength in Mpa	560 - 610
Iron	Fe %	Balance	Yield Strength in Mpa	300 min.
-	-	-	Elongation in %	12 min.
-	-	-	Reduction of Area in %	35 - 40
-	-	-	Hardness in HB	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 1040 1039	ASTM	USA	Steel		
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

All information in our data sheets and website is indicative only and is not intended to be a substitute for the full specification from which it is extracted. It is intended to provide typical values to allow comparison between metal alloy option rather than a definitive statement of mechanical performance or suitability for a particular application as these will vary with temperature, product type and product application. It is presented apart from contractual obligations and does not constitute any guarantee of properties or of processing or application possibilities in individual cases. Our warranties and liabilities are stated exclusively in our terms of business.