



## Material - ASTM A 827 1009

### Standard Specification For Carbon Steel Compositions For Forging

Group - Ferrous Mild Steel Alloys

Sub Group - ASTM A 1040 1009 Carbon Steel Compositions For Forging

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

Grade Belongs to the Industry - Forging

Chemical Composition			Heat Treatment	
Carbon	C %	0.150 max.	As Raw or Annealing or Normalizing or Hardening and Tempering	
Manganese	Mn %	0.600 max.		
Phosphorus	P %	0.030 max.		
Sulphur	S %	0.035 max.		
Silicon	Si %	0.150 - 0.400		
Iron	Fe %	Balance		
-	-	-		
-	-	-		
-	-	-		
-	-	-		
			Mechanical Properties	
			Tensile Strength in Mpa	-
			Yield Strength in Mpa	-
			Elongation in %	-
			Reduction of Area in %	-
			Hardness in HB	262 max.
			Impact in Joule	-

Cross Reference Table			
Material	Standard	Country	Grade Belong to the Industry
G10090	UNS	USA	Bars, Wire Rods, Plates, Strip, Sheets and Tubing
1009	UNS	USA	Bars, Wire Rods, Plates, Strip, Sheets and Tubing
1009	AISI	USA	Bars, Wire Rods, Plates, Strip, Sheets and Tubing
A 1040 1009	ASTM	USA	Bars, Wire Rods, Plates, Strip, Sheets and Tubing
A 830 1009	ASTM	USA	Bars, Wire Rods, Plates, Strip, Sheets and Tubing
A 830 G10090	ASTM	USA	Bars, Wire Rods, Plates, Strip, Sheets and Tubing
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**Further any inquiry to discuss with Gravity Cast Pvt. Ltd. – Gravity Group of Companies team member Call on +918469160029, or email [marketing@gravitycastindia.com](mailto:marketing@gravitycastindia.com)**

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