



**GRAVITY CAST PVT. LTD.**  
GRAVITY GROUP OF COMPANIES

## Material - ASTM A 108 Grade 1016

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 108 Grade 1016 Carbon Steel Compositions For Forging To Hot-Rolled And Cold-Finished Steel and Steel

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 %	0.130 - 0.180	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.				
Lead	Pb %	Balance				
Silicon	Si %	0.100 max.				
Iron	Fe %	Balance				
-	-	-	<b>Mechanical Properties</b>			
-	-	-			Tensile Strength in Mpa	380 - 689
-	-	-			Yield Strength in Mpa	210 min
-	-	-			Elongation in %	13 min.
-	-	-			Reduction of Area in %	40 - 50
-	-	-			Hardness in HB	111 - 121
-	-	-			Impact in Joule	-
-	-	-				

Cross Reference Table			
Material	Standard	Country	Grade Belong to the Industry
G10160	UNS	USA	Bars, Wire Rods, Plates, Strip, Sheets and Tubing
1016	SAE	USA	Bars, Wire Rods and Tubing
1016	AISI	USA	Tubing
A 1040 1016	ASTM	USA	Steel
A 29 1016	ASTM	USA	Steel and Bar
A 510 1016	ASTM	USA	Wire Rods
A 512 Grade 1016	ASTM	USA	Tubing

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)

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.

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