GRAVITY CAST PVT. LTD.
GRAVITY GROUP OF COMPANIES

Material - SAE J404 I SAE J1397 8640

Standard Specification for Chemical Compositions and Estimated Mechanical Properties and Machinability of Steel

Group - Ferrous Mild Steel Alloys

Sub Group - SAE J404 I SAE J1397 8640 Chemical Compositions and Estimated Mechanical Properties and Machinability of Steel

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

Grade Belongs to the Industry - Steel and Bars

Chemical Composition		
Carbon	C %	0.380 - 0.430
Manganese	Mn %	0.750 - 1.000
Phosphorus	P %	0.030 max.
Sulphur	S %	0.040 max.
Silicon	Si %	0.150 - 0.350
Nickel	Ni %	0.400 - 0.700
Chromium	Cr %	0.400 - 0.600
Molybdenum	Mo %	0.150 - 0.250
Iron	Fe %	Balance
-	-	-
-	-	-
-	-	-
-	-	-
-	-	-
-	-	-

Heat Treatment
As-Raw or Annealing

Mechanical Properties	
Tensile Strength in Mpa	-
Proof Strength in Mpa	-
Elongation in %	-
Reduction of Area in %	-
Hardness in HB	184 - 229
Impact in Joule	-

www.gravitycastindia.com

Cross Reference Table			
Material	**Standard**	**Country**	**Grade Belong to the Industry**
G86400	UNS	USA	Steel
SAE J 404 8640	AISI	USA	Steel
8640 H	AISI	USA	Steel
1444 8640	AS	Australia	Steel
A 29 8640	ASTM	USA	Steel and Bars
A 505 8640	ASTM	USA	Sheet and Strip
A 519 8640	ASTM	USA	Steel and 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

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.