



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

## Material - SAE J403 | SAE J1397 UNS G10740 - Hot Rolled Standard Specification For Carbon Steel Compositions For Forging To Hot-Rolled Plate and Steel

Group - Ferrous Mild Steel Alloys

Sub Group - SAE J403 | SAE J1397 UNS G10740 - Hot Rolled Carbon Steel Compositions For Forging To Hot-Rolled Plate and Steel

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

Grade Belongs to the Industry - Plate and Steel

Chemical Composition			Heat Treatment	
Carbon	C %	0.650 - 0.750	As Raw or Annealing or Normalizing or Hardening and Tempering	
Manganese	Mn %	0.600 - 0.900		
Phosphorus	P %	0.030 max.		
Sulphur	S %	0.030 max.		
Silicon	Si %	0.150 - 0.400		
Iron	Fe %	Balance		
-	-	-		
-	-	-		
-	-	-		
-	-	-		
			Mechanical Properties	
			Tensile Strength in Mpa	650 - 720
			Yield Strength in Mpa	400 min.
			Elongation in %	10 min.
			Reduction of Area in %	30 - 45
			Hardness in HB	192 - 217
			Impact in Joule	-

Cross Reference Table			
Material	Standard	Country	Grade Belong to the Industry
1074	SAE	USA	Steel
1074	SAE	USA	Steel and Bar
A 1040 1074	ASTM	USA	Steel
A 29 1074	ASTM	USA	Steel and Bar
A 510 1074	ASTM	USA	Steel
A 682 G10740	ASTM	USA	Steel and Strip
A 682 Grade 1074	ASTM	USA	Steel and Strip

**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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