



GRAVITY CAST PVT. LTD.
GRAVITY GROUP OF COMPANIES

Material - ASTM A 1040 1213

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

Group - Ferrous Mild Steel Alloys

Sub Group - ASTM A 1040 1213 Carbon Steel Compositions For Forging To Hot-Rolled And Cold-Finished Steel

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

Grade Belongs to the Industry - Steel

Chemical Composition			Heat Treatment			
Carbon	C %	0.130 max.	As Raw or Annealing or Normalizing or Hardening and Tempering			
Manganese	Mn %	0.700 - 1.000				
Phosphorus	P %	0.070 - 0.120				
Sulphur	S %	0.240 - 0.330				
Silicon	Si %	0.100 max.				
Iron	Fe %	Balance				
-	-	-				
-	-	-	Mechanical Properties			
-	-	-			Tensile Strength in Mpa	390 - 540
-	-	-			Yield Strength in Mpa	230 min.
-	-	-			Elongation in %	10 min.
-	-	-			Reduction of Area in %	35 - 45
-	-	-			Hardness in HB	121 - 167
-	-	-			Impact in Joule	-
-	-	-				

Cross Reference Table			
Material	Standard	Country	Grade Belong to the Industry
G12130	UNS	USA	Bars, Wire Rods, Plates, Strip, Sheets and Tubing
1213	SAE	USA	Bars, Wire Rods, Plates, Strip, Sheets and Tubing
1213	AISI	USA	Steel and Bar
A 576 1213	ASTM	USA	Steel and Bar
SA-29 1213	ASME	USA	Steel
A 108 Grade 1213	ASTM	USA	Steel and Bar
A 29 1213	ASTM	USA	Steel and Bar

Further any inquiry to discuss with Gravity Cast Pvt. Ltd. – Gravity Group of Companies team member Call on +918469160029, or email marketing@gravitycastindia.com

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