



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

## Material - ASTM A 830 G10550

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

**Group - Ferrous Mild Steel Alloys**

**Sub Group - ASTM A 830 G10550 Carbon Steel Compositions For Forging To Hot-Rolled And Cold-Finished 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 %	0.500 - 0.600	As Raw or Annealing or Normalizing or Hardening and Tempering	
Manganese	Mn %	0.600 - 0.900		
Phosphorus	P %	0.035 max.		
Sulphur	S %	0.040 max.		
Silicon	Si %	0.150 - 0.400		
Iron	Fe %	Balance		
-	-	-		
-	-	-		
-	-	-		
-	-	-		
-	-	-		
-	-	-		
-	-	-		
-	-	-		
-	-	-		
-	-	-		
-	-	-		
			Mechanical Properties	
			Tensile Strength in Mpa	650 - 660
			Yield Strength in Mpa	360 min.
			Elongation in %	10 min.
			Reduction of Area in %	30 - 40
			Hardness in HB	192 - 197
			Impact in Joule	-

Cross Reference Table			
Material	Standard	Country	Grade Belong to the Industry
G10550	UNS	USA	Bars, Wire Rods, Plates, Strip, Sheets and Tubing
1055	SAE	USA	Strip and Steel
1055	AISI	USA	Steel and Bar
A 713 Grade 1055	ASTM	USA	Wire
A 684 Grade 1055	ASTM	USA	Strip and Steel
A 713 G10550	ASTM	USA	Steel and Wire
A 682 G10550	ASTM	USA	Strip and Steel

**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.

**ONE STOP SOLUTION FOR METAL PARTS**