



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

## Material - ASTM A 830 1552

**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 1552 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 %	0.470 - 0.550	As Raw or Annealing or Normalizing or Hardening and Tempering	
Manganese	Mn %	1.200 - 1.500		
Phosphorus	P %	0.030 max.		
Sulphur	S %	0.030 max.		
Silicon	Si %	0.150 - 0.350		
Iron	Fe %	Balance		
-	-	-		
-	-	-		
-	-	-		
-	-	-		
-	-	-		
-	-	-		
-	-	-		
-	-	-		
-	-	-		
-	-	-		
-	-	-		
			Mechanical Properties	
			Tensile Strength in Mpa	680 - 740
			Yield Strength in Mpa	410 min.
			Elongation in %	10 min.
			Reduction of Area in %	30 - 40
			Hardness in HB	193 - 217
			Impact in Joule	-

Cross Reference Table			
Material	Standard	Country	Grade Belong to the Industry
G15520	UNS	USA	Bars, Wire Rods, Plates, Strip, Sheets and Tubing
1552	SAE	USA	Bars, Wire Rods, Plates, Strip, Sheets and Tubing
1552	AISI	USA	Steel and Bar
A 29 1552	ASTM	USA	Steel and Bar
A 510 1552	ASTM	USA	Wire Rod, Round Wire and Steel
A 830 G15520	ASTM	USA	Plate and Steel
A 866 1552	ASTM	USA	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**