



## Material - ASTM A 830 G10780

### Standard Specification For Carbon Steel Compositions For Forging To Hot-Rolled Plate and Steel

Group - Ferrous Mild Steel Alloys

Sub Group - ASTM A 830 G10780 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 %	0.700 - 0.850	As Raw or Annealing or Normalizing or Hardening and Tempering			
Manganese	Mn %	0.300 - 0.600				
Phosphorus	P %	0.035 max.				
Sulphur	S %	0.040 max.				
Silicon	Si %	0.150 - 0.400				
Iron	Fe %	Balance				
-	-	-				
-	-	-	<b>Mechanical Properties</b>			
-	-	-			Tensile Strength in Mpa	650 - 690
-	-	-			Yield Strength in Mpa	380 min.
-	-	-			Elongation in %	10 min.
-	-	-			Reduction of Area in %	30 - 40
-	-	-			Hardness in HB	192 - 207
-	-	-			Impact in Joule	-
-	-	-				
-	-	-				
-	-	-				

Cross Reference Table			
Material	Standard	Country	Grade Belong to the Industry
G10780	UNS	USA	Bars, Wire Rods, Plates, Strip, Sheets and Tubing
1078	SAE	USA	Steel
1078	AISI	USA	Steel and Bar
A 713 G10780	ASTM	USA	Steel and Wire
A 576 10L78	ASTM	USA	Steel and Bar
A 830 1078	ASTM	USA	Plate and Steel
A 713 Grade 1078	ASTM	USA	Steel and Wire

**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)**

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