

# Material: ASTM A 830 1043

## 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 1043 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 %	0.400 - 0.470	As Raw or Annealing or Normalizing or Hardening and Tempering			
Manganese	Mn %	0.700 - 1.000				
Phosphorus	P %	0.030 max.				
Sulphur	S %	0.030 max.				
Silicon	Si %	0.150 - 0.400				
Iron	Fe %	Balance				
-	-	-				
-	-	-	<b>Mechanical Properties</b>			
-	-	-				
-	-	-				
-	-	-			Tensile Strength in Mpa	570 - 630
-	-	-			Yield Strength in Mpa	310 min.
-	-	-			Elongation in %	12 min.
-	-	-			Reduction of Area in %	35 - 45
-	-	-			Hardness in HB	163 - 179
-	-	-			Impact in Joule	-
-	-	-				

Cross Reference Table			
Material	Standard	Country	Grade Belong to the Industry
G10430	UNS	USA	Bars, Wire Rods, Plates, Strip, Sheets and Tubing
1043	SAE	USA	Steel
1043	AISI	USA	Bar
A 1040 1043	ASTM	USA	Steel
A 29 1043	ASTM	USA	Bar
A 510 1043	ASTM	USA	Wire Rod
A 576 10L43	ASTM	USA	Steel and Bar

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