

# Material: ASTM A 830 1070

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

**Group:** Ferrous Mild Steel Alloys

**Sub Group:** ASTM A 830 1070 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		
Carbon	C %	0.650 - 0.750
Manganese	Mn %	0.600 - 0.900
Phosphorus	P %	0.030 max.
Sulphur	S %	0.030 max.
Silicon	Si %	0.150 - 0.400
Iron	Fe %	Balance
-	-	-
-	-	-
-	-	-
-	-	-
-	-	-
-	-	-
-	-	-
-	-	-
-	-	-
-	-	-
-	-	-
-	-	-
-	-	-
-	-	-
-	-	-

Heat Treatment	
As Raw or Annealing or Normalizing or Hardening and Tempering	

Mechanical Properties	
Tensile Strength in Mpa	640 - 700
Yield Strength in Mpa	390 min.
Elongation in %	10 min.
Reduction of Area in %	30 - 45
Hardness in HB	192 - 212
Impact in Joule	-

Cross Reference Table			
Material	Standard	Country	Grade Belong to the Industry
G10700	UNS	USA	Bars, Wire Rods, Plates, Strip, Sheets and Tubing
1070	SAE	USA	Steel
1070	AISI	USA	Steel and Bar
A 510 1070	ASTM	USA	Wire Rods, Round Wire and Steel
A 576 10L70	ASTM	USA	Steel and Bar
A 713 G10700	ASTM	USA	Steel and Wire
A 713 Grade 1070	ASTM	USA	Steel and Wire

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Customer Care: +91-99090 45075 Email: [info@icastllp.com](mailto:info@icastllp.com)



+91-99090 45075



[info@icastllp.com](mailto:info@icastllp.com)



ICAST ALLOYS LLP, Plot 2527, Road H1, Kranti Gate, GIDC Metoda, Lodhika, Rajkot-360021, Gujarat, India