

Material - ASTM A 827 1045

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

Group - Ferrous Mild Steel Alloys

Sub Group - ASTM A 827 1045 Carbon Steel Compositions For Forging To Hot-Rolled And Cold-Finished Plate, Steel and Forging

Application - Intended for Valve, Pump, General Engineering, Automotive and Other Industries

Grade Belongs to the Industry - Plate, Steel and Forging

Chemical Composition			Heat Treatment	
Carbon	C %	0.430 - 0.500	As Raw or Annealing or Normalizing or Hardening and Tempering	
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		
-	-	-	Mechanical Properties Tensile Strength in Mpa 570 - 862 Yield Strength in Mpa 310 min. Elongation in % 10 min. Reduction of Area in % 35 - 45 Hardness in HB 163 - 321 Impact in Joule -	
-	-	-		
-	-	-		
-	-	-		
-	-	-		
-	-	-		
-	-	-		
-	-	-		
-	-	-		
-	-	-		

Cross Reference Table			
Material	Standard	Country	Grade Belong to the Industry
G10450	UNS	USA	Bars, Wire Rods, Plates, Strip, Sheets and Tubing
1045	SAE	USA	Bars, Wire Rods, Plates, Strip, Sheets and Tubing
1045	AISI	USA	Steel and Bar
A 311 1045 Class A	ASTM	USA	Steel and Bar
A 311 1045 Class B	ASTM	USA	Steel and Bar
A 830 G10450	ASTM	USA	Plate and Steel
A 682 Grade 1045	ASTM	USA	Steel and Strip

For any further inquiries, please do not hesitate to contact us. You may visit our website at AMTECH TECHNOCAST PVT. LTD., call us at [+91 9879817994](tel:+919879817994), or email us at manish@amtechtechnocast.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.