

Material - ASTM A 311 1045 Class B

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

Group - Ferrous Mild Steel Alloys

Sub Group - ASTM A 311 1045 Class B Carbon Steel Compositions For Forging To Hot-Rolled And Cold-Finished Steel and Bar

Application - Intended for Valve, Pump, General Engineering, Automotive and Other Industries Grade Belongs to the Industry - Steel and Bar

Chemical Composition			Heat Treatment	
Carbon	C %	0.430 - 0.500		
Manganese	Mn %	0.600 - 0.900		
Phosphorus	P %	0.040 max.	As Pay or Annualing or Normalizing or Hardoning and	
Sulphur	S %	0.050 max.	As Raw or Annealing or Normalizing or Hardening and	
Iron	Fe %	Balance	Tempering	
-	-	-		
-	-	-		
-	-	-		
-		-	Mechanical Properties	
-	-	-	Tensile Strength in Mpa	725 min.
-	-	-	Yield Strength in Mpa	620 min.
-	-	-	Elongation in %	7 min.
-	-	-	Reduction of Area in %	20 min.
-	-	-	Hardness in BHN	-
-	-		Impac <mark>t in Joule</mark>	-
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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 830 G10450	ASTM	USA	Plate and Steel		
A 827 1045	ASTM	USA	Plate, Steel and Forging		
A 682 Grade 1045	ASTM	USA	Steel and Strip		

Further any inquiry to discuss with Gravity Cast Pvt. Ltd. – Gravity Group of Companies team member Call on +918469160029, or email marketing@gravitycastindia.com

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