



Material - ASTM A 108 1045

Standard Specification for Steel Bars, Carbon, Cold-Finished and Standard Quality

Group - Ferrous Mild Steel Alloys

Sub Group - ASTM A 108 1045 Steel Bars, Carbon, Cold-Finished and Standard Quality Application - Intended for Valve, Pump, General Engineering, Automotive and Other Industries Grade Belongs to the Industry - Bar, Wire, Tube and Forging

Chemical Composition			Heat Treatment	
Carbon	C %	0.430 - 0.500		
Manganese	Mn %	0.600 - 0.900	As- Cast or Normalising or Annealing or Hardening + Tempering	
Phosphorus	P %	0.040 max.		ancoling or Hardoning I
Sulphur	S %	0.050 max.		
Silicon	Si %	0.100 max.		
Lead	Pb %	0.150 - 0.350		
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
-	-	-	Impac <mark>t in Joule</mark>	-

Cross Reference Table				
Material	Standard	Country	Grade Belong to the Industry	
A915 Grade SC 1045	ASTM	USA	Casting	
J04502	UNS	USA	Bar, Wire, Tube and Forging	
1045	AISI	USA	Bar, Wire, Tube and Forging	
1045	AS	Australia	Bar, Wire, Tube and Forging	
1045	SAE	USA	Bar, Wire, Tube and Forging	
1045	AMS	USA	Bar, Wire, Tube and Forging	
A 29 1045	ASTM	USA	Bar, Wire, Tube and Forging	

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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