



GRAVITY CAST PVT. LTD.
GRAVITY GROUP OF COMPANIES

Material - ASTM A 108 Grade 1141

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 108 Grade 1141 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 %	0.370 - 0.450	As Raw or Annealing or Normalizing or Hardening and Tempering			
Manganese	Mn %	1.350 - 1.650				
Phosphorus	P %	0.040 max.				
Sulphur	S %	0.080 - 0.130				
Silicon	Si %	0.100 max.				
Lead	Pb %	0.150 - 0.350				
Iron	Fe %	Balance				
-	-	-	Mechanical Properties			
-	-	-			Tensile Strength in Mpa	550 min.
-	-	-			Yield Strength in Mpa	360 min.
-	-	-			Elongation in %	10 min.
-	-	-			Reduction of Area in %	30 min.
-	-	-			Hardness in HB	187 - 321
-	-	-			Impact in Joule	-
-	-	-				

Cross Reference Table				
Material	Standard	Country	Grade Belong to the Industry	
G11410	UNS	USA	Bars, Wire Rods, Plates, Strip, Sheets and Tubing	
1141	SAE	USA	Steel	
1141	AISI	USA	Steel and Bar	
A 1040 1141	ASTM	USA	Steel	
A 29 1141	ASTM	USA	Steel and Bar	
A 311 1141 Class A	ASTM	USA	Steel and Bar	
A 311 1141 Class B	ASTM	USA	Steel and Bar	

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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