



Material - AISI 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 - AISI 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		
Aluminium	Al %	0.020 max.		
Niobium	Nb %	0.015 max.		
Silicon	Si %	0.100 max.		
Vanadium	V %	0.020 max.		
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
A 1040 1141	ASTM	USA	Steel
A 108 Grade 1141	ASTM	USA	Steel and Bar
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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