



Material - SAE 1151

Standard Specification For Carbon Steel Compositions For Forging To Hot-Rolled And Cold-Finished Bars, To Wire Rods, Plates, Strip, Sheets and Tubing

Group - Ferrous Mild Steel Alloys

Sub Group - SAE 1151 Carbon Steel Compositions For Forging To Hot-Rolled And Cold-Finished Bars, Wire Rods, Plates, Strip, Sheets and Tubing

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

Grade Belongs to the Industry - Bars, Wire Rods, Plates, Strip, Sheets and Tubing

Chemical Composition			Heat Treatment	
Carbon	C %	0.480 - 0.550	As Raw or Annealing or Normalizing or Hardening and Tempering	
Manganese	Mn %	0.700 - 0.900		
Phosphorus	P %	0.030 max.		
Sulphur	S %	0.080 - 0.130		
Lead	Pb %	0.150 - 0.350		
Iron	Fe %	Balance		
-	-	-		
-	-	-		
-	-	-		
-	-	-		
			Mechanical Properties	
			Tensile Strength in Mpa	630 min.
			Yield Strength in Mpa	340 min.
			Elongation in %	10 min.
			Reduction of Area in %	30 - 35
			Hardness in HB	187 - 321
			Impact in Joule	-

Cross Reference Table			
Material	Standard	Country	Grade Belong to the Industry
G11510	UNS	USA	Bars, Wire Rods, Plates, Strip, Sheets and Tubing
1151	AISI	USA	Steel and Bar
A 1040 1151	ASTM	USA	Steel
A 108 Grade 1151	ASTM	USA	Steel and Bar
A 29 1151	ASTM	USA	Steel and Bar
A 510 1151	ASTM	USA	Wire Rod, Round Wire and Steel
A 576 11L51	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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