

Material - SAE 1050

Standard Specification For Carbon Steel Compositions For Forging To Hot-Rolled And Cold-Finished Steel, Sheet, Strip and Plate

Group - Ferrous Mild Steel Alloys

Sub Group - SAE 1050 Carbon Steel Compositions For Forging To Hot-Rolled And Cold-Finished Steel, Sheet, Strip and Plate

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

Chemical Composition			Heat Treatment	
Carbon	C %	0.480 - 0.550	As Raw or Annealing or Normalizing or Hardening and Tempering	
Manganese	Mn %	0.600 - 0.900		
Phosphorus	Р%	0.030 max.		
Sulphur	S %	0.035 max.		
Silicon	Si %	0.150 - 0.300		
Iron	Fe %	Balance		
-	-	-		
-	-	-		
-	-	-	Mechanical P	roperties
-	-	-	Tensile Strength in Mpa	620 - 690
-	-	-	Yield Strength in Mpa	340 min.
-	-	-	Elongation in %	10 min.
-	-	-	Reduction of Area in %	30 - 40
-	-	-	Hardn <mark>ess in HB</mark>	179 - 197
-	-		Impact in Joule	9.5 - 12.2 J @ RT

		Cross Reference Table				
	Material	Standard	Country	Grade Belong to the Industry		
	G10500	UNS	USA	Bars, Wire Rods, Plates, Strip, Sheets and Tubing		
	1050	AISI	USA	Steel, Sheet, Strip and Plate		
	A 311 1050 Class A	ASTM	USA	Steel and Bar		
	A 311 1050 Class B	ASTM	USA	Steel and Bar		
ĺ	A 513 Grade 1050	ASTM	USA	Steel and Tubing		
ĺ	A 684 Grade 1050	ASTM	USA	Steel and Strip		
İ	A 108 Grade 1050	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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