

Material - SAE 1213

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 1213 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 %	0.130 max.		
Manganese	Mn %	0.700 - 1.000	As Raw or Annealing or Normalizing or Hardening and Tempering	
Phosphorus	P %	0.070 - 0.120		
Sulphur	S %	0.240 - 0.330		
Lead	Pb %	0.150 - 0.350		
Iron	Fe %	Balance		
-	-	-		
-	-	-		
-	-	-	Mechanical Properties	
-	-	-	Tensile Strength in Mpa	390 - 540
-	-	-	Yield Strength in Mpa	230 min.
-	-	-	Elongation in %	10 min.
-	-	-	Reduction of Area in %	35 - 45
-	-	-	Hardness in HB	121 - 167
-	-	-	Impac <mark>t in Joule</mark>	-

Cross Reference Table					
Material	Standard	Country	Grade Belong to the Industry		
G12130	UNS	USA	Bars, Wire Rods, Plates, Strip, Sheets and Tubing		
1213	AISI	USA	Steel and Bar		
A 1040 1213	ASTM	USA	Steel		
A 576 1213	ASTM	USA	Steel and Bar		
SA-29 1213	ASME	USA	Steel		
A 108 Grade 1213	ASTM	USA	Steel and Bar		
A 29 1213	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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