



GRAVITY CAST PVT. LTD.
GRAVITY GROUP OF COMPANIES

Material - SAE 1013

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 1013 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 %	0.110 - 0.160	As Raw or Annealing or Normalizing or Hardening and Tempering	
Manganese	Mn %	0.300 - 0.600		
Phosphorus	P %	0.030 max.		
Sulphur	S %	0.035 max.		
Boron	B %	0.0005 - 0.003		
Chromium	Cr %	0.150 max.		
Copper	Cu %	0.200 max.		
Molybdenum	Mo %	0.060 max.		
Niobium	Nb %	0.150 - 0.350		
Nickel	Ni %	0.200 max.		
Lead	Pb %	0.150 - 0.350	Mechanical Properties Tensile Strength in Mpa 370 Min. Yield Strength in Mpa 310 min. Elongation in % 19 min. Reduction of Area in % 40 min. Hardness in HB 105 max. Impact in Joule -	
Iron	Fe %	Balance		
-	-	-		
-	-	-		
-	-	-		
-	-	-		

Cross Reference Table			
Material	Standard	Country	Grade Belong to the Industry
G10130	UNS	USA	Bars, Wire Rods, Plates, Strip, Sheets and Tubing
1013	AISI	USA	Bar
A 1040 1013	ASTM	USA	Bars, Wire Rods, Plates, Strip, Sheets and Tubing
A 29 1013	ASTM	USA	Bar
A 510 1013	ASTM	USA	Wire Rod
SA-29 1013	ASME	USA	Bar
K11430	UNS	USA	Bars, Wire Rods, Plates, Strip, Sheets and Tubing

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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