

Material - SAE 4130

Standard Specification for Chemical Compositions of SAE Alloy Steels

Group - Ferrous Mild Steel Alloys

Sub Group - SAE 4130 Chemical Compositions of SAE Alloy Steels

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

Chemical Composition			Heat Treatment	
Carbon	C %	0.280 - 0.330		
Silicon	Si %	0.150 - 0.350		
Manganese	Mn %	0.400 - 0.600	Annealing or Normalising or Hardening + Tempering	
Phosphorus	Р%	0.035 max.		
Sulphur	S %	0.080 max.		
Chromium	Cr %	0.800 - 1.100		
Nickel	Ni %	0.250 max.		
Molybdenum	Mo %	0.150 - 0.250		
Copper	Cu %	0.350 max.	Mechanical Properties	
Iron	Fe %	Balance	Tensile Strength in Mpa	586 - 1379
-	-	-	Yield Strength in Mpa	482.6 min.
-	-	-	Elongation in %	5 min.
-	-	-	Reduction of Area in %	20 min.
-	-	-	Hardn <mark>ess in HR</mark> C	25 max.
-	-	-	Impac <mark>t in Joule</mark>	79.1 J @ RT

Cross Reference Table				
Material	Standard	Country	Grade Belong to the Industry	
J13045	UNS	USA	Casting	
4130	AISI	USA	Forging, Bar, Wire, and Shape	
A579 Grade 13	ASTM	USA	Forging	
J13048	UNS	USA	Casting	
K13247	UNS	USA	Steel	
AMS 4130	AMS	USA	Bar and Forging	
A732 7Q	ASTM	USA	Casting	

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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