

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	Annealing or Normalizing or Hardening + Tempering	
Silicon	Si %	0.150 - 0.350		
Manganese	Mn %	0.400 - 0.600		
Phosphorus	P %	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.		
Iron	Fe %	Balance	Mechanical Properties Tensile Strength in Mpa 586 - 1379 Yield Strength in Mpa 482.6 min. Elongation in % 5 min. Reduction of Area in % 20 min. Hardness in HRC 25 max. Impact in Joule 79.1 J @ RT	
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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

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