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		
Carbon	C %	0.280 - 0.330
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
-	-	-
-	-	-
-	-	-
-	-	-
-	-	-

Heat Treatment
Annealing or Normalizing or Hardening + Tempering

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

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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