

## Material: UNS K11430

### 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:** UNS K11430 Carbon Steel Compositions For Forging To Hot-Rolled And Cold-Finished Bars, To 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 %	0.090 - 0.200	As Raw or Annealing or Normalizing or Hardening and Tempering	
Manganese	Mn %	0.860 - 1.240		
Phosphorus	P %	0.045 max.		
Sulphur	S %	0.055 max.		
Silicon	Si %	0.130 - 0.320		
Copper	Cu %	0.220 - 0.430		
Vanadium	V %	0.001 - 0.110		
Iron	Fe %	Balance		
-	-	-	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	-

Cross Reference Table			
Material	Standard	Country	Grade Belong to the Industry
G10130	UNS	USA	Bars, Wire Rods, Plates, Strip, Sheets and Tubing
1013	SAE	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

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