

Material: ASTM A 29 1013

Standard Specification For Carbon Steel Compositions For Forging To Hot-Rolled And Cold-Finished Bars

Group: Ferrous Mild Steel Alloys

Sub Group: ASTM A 29 1013 Carbon Steel Compositions For Forging To Hot-Rolled And Cold-Finished Bars

Application: Intended for Valve, Pump, General Engineering, Automotive and Other Industries

Grade Belongs to the Industry: Bar

Chemical Composition			Heat Treatment	
Carbon	C %	0.110 - 0.160	As Raw or Annealing or Normalizing or Hardening and Tempering	
Manganese	Mn %	0.500 - 0.800		
Phosphorus	P %	0.040 max.		
Sulphur	S %	0.050 max.		
Boron	B %	0.0005 - 0.003		
Aluminium	Al %	0.020 max.		
Copper	Cu %	0.200 max.		
Silicon	Si %	0.100 max.		
Niobium	Nb %	0.025 max.		
Vanadium	V %	0.050 max.		
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 510 1013	ASTM	USA	Wire Rod
SA-29 1013	ASME	USA	Bar
K11430	UNS	USA	Bars, Wire Rods, Plates, Strip, Sheets and Tubing

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