

Material: ASTM A 29 1010

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

Group: Ferrous Mild Steel Alloys

Sub Group: ASTM A 29 1010 Carbon Steel Compositions For Forging To Hot-Rolled And Cold-Finished Bar

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

Grade Belongs to the Industry: Bar

Chemical Composition		
Carbon	C %	0.080 - 0.130
Manganese	Mn %	0.300 - 0.600
Phosphorus	P %	0.040 max.
Sulphur	S %	0.050 max.
Niobium	Nb %	0.025 max.
Silicon	Si %	0.100 max.
Aluminium	Al %	0.020 max.
Boron	B %	0.0005 - 0.003
Vanadium	V %	0.050 max.
Iron	Fe %	Balance
-	-	-
-	-	-
-	-	-
-	-	-
-	-	-

Heat Treatment
As Raw or Annealing or Normalizing or Hardening and Tempering

Mechanical Properties	
Tensile Strength in Mpa	275 - 655
Yield Strength in Mpa	170 min.
Elongation in %	5 min.
Reduction of Area in %	40 - 50
Hardness in HB	95 - 105
Impact in Joule	-

Cross Reference Table			
Material	Standard	Country	Grade Belong to the Industry
G10100	UNS	USA	Bars, Wire Rods, Plates, Strip, Sheets and Tubing
1010	SAE	USA	Sheet and Tubing
1010	AISI	USA	Tubing
A 1040 1010	ASTM	USA	Bars, Wire Rods, Plates, Strip, Sheets and Tubing
A 108 Grade 1010	ASTM	USA	Bar and Sheet
A 29 M1010	ASTM	USA	Bar
A 510 1010	ASTM	USA	Bars, Wire Rods, Plates, Strip, Sheets and Tubing

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