

Material: ASTM A 29 1019

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

Group: Ferrous Mild Steel Alloys

Sub Group: ASTM A 29 1019 Carbon Steel Compositions For Forging To Hot-Rolled And Cold-Finished Steel and bar

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

Grade Belongs to the Industry: Steel and Bar

Chemical Composition		
Carbon	C %	0.150 -0.200
Manganese	Mn %	0.700 - 1.000
Phosphorus	P %	0.040 max.
Sulphur	S %	0.050 max.
Copper	Cu %	0.200 max.
Boron	B %	0.0005 - 0.003
Silicon	Si %	0.100 max.
Aluminium	Al %	0.200 max.
Niobium	Nb %	0.025 max.
Vanadium	V %	0.050 min.
Iron	Fe %	Balance
-	-	-
-	-	-
-	-	-
-	-	-

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

Mechanical Properties	
Tensile Strength in Mpa	410 - 460
Yield Strength in Mpa	220 min.
Elongation in %	15 min.
Reduction of Area in %	40 - 50
Hardness in HB	116 - 131
Impact in Joule	-

Cross Reference Table			
Material	Standard	Country	Grade Belong to the Industry
G10190	UNS	USA	Bars, Wire Rods and Tubing
1019	SAE	USA	Steel
1019	AISI	USA	Tubing
A 1040 1019	ASTM	USA	Steel
A 510 1019	ASTM	USA	Wire Rod and Round Wire
A 512 Grade 1019	ASTM	USA	Tubing
A 513 1019	ASTM	USA	Tubing

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