

Material: AISI 1019

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

Group: Ferrous Mild Steel Alloys

Sub Group: AISI 1019 Carbon Steel Compositions For Forging To Hot-Rolled And Cold-Finished Tubing

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

Grade Belongs to the Industry: Tubing

Chemical Composition		
Carbon	C %	0.140 - 0.210
Manganese	Mn %	0.700 - 1.000
Phosphorus	P %	0.035 max.
Sulphur	S %	0.035 max.
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
A 1040 1019	ASTM	USA	Steel
A 29 1019	ASTM	USA	Steel and Bar
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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