

Material: ASTM A 1040 1019

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

Group: Ferrous Mild Steel Alloys

Sub Group: ASTM A 1040 1019 Carbon Steel Compositions For Forging To Hot-Rolled And Cold-Finished Steel

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

Grade Belongs to the Industry: Steel

Chemical Composition			Heat Treatment	
Carbon	C %	0.150 -0.200	As Raw or Annealing or Normalizing or Hardening and Tempering	
Manganese	Mn %	0.700 - 1.000		
Phosphorus	P %	0.030 max.		
Sulphur	S %	0.035 max.		
Copper	Cu %	0.200 max.		
Boron	B %	0.0005 - 0.003		
Silicon	Si %	0.100 max.		
Iron	Fe %	Balance		
-	-	-	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 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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