

Material: SAE 1019

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

Group: Ferrous Mild Steel Alloys

Sub Group: SAE 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 %	0.040 max.		
Sulphur	S %	0.050 max.		
Iron	Fe %	Balance		
-	-	-	Mechanical Properties	
-	-	-		
-	-	-		
-	-	-		
-	-	-		
-	-	-		
-	-	-		
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-	-	-		
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			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	AISI	USA	Tubing
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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