

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			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.		
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	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 -	
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-	-	-		
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-	-	-		
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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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