



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		
Manganese	Mn %	0.700 - 1.000	As Raw or Annealing or Normalizing or Hardening and Tempering	
Phosphorus	P %	0.040 max.		olizing or Hordoning and
Sulphur	S %	0.050 max.		· ·
Copper	Cu %	0.200 max.		
Boron	В %	0.0005 - 0.003		
Silicon	Si %	0.100 max.		
Aluminium	Al %	0.200 max.		
Niobium	Nb %	0.025 max.	Mechanical Properties	
Vanadium	V %	0.050 min.	Tensile Strength in Mpa	410 - 460
Iron	Fe %	Balance	Yield Strength in Mpa	220 min.
-	-	-	Elongation in %	15 min.
-	-	-	Reduction of Area in %	40 - 50
-	-	-	Hardn <mark>ess in HB</mark>	116 - 131
-	-	-	Impact in Joule	-

Cross Reference Table				
Material	Standard	Country	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	

Further any inquiry to discuss with Gravity Cast Pvt. Ltd. – Gravity Group of Companies team member Call on +918469160029, or email marketing@gravitycastindia.com

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