

Material - ASTM A 513 Grade 1019

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

Group - Ferrous Mild Steel Alloys

Sub Group - ASTM A 513 Grade 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			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	Р%	0.035 max.		izing or Uprdoning and
Sulphur	S %	0.035 max.		
Iron	Fe %	Balance		б
-	-	-		
-	-	-		
-	-	-		
-	-	-	Mechanical Properties	
-	-	-	Tensile Strength in Mpa	410 - 460
-	-	-	Yield Strength in Mpa	220 min.
-	-	-	Elongation in %	15 min.
-	-	-	Reduction of Area in %	40 - 50
-	-	-	Hardn <mark>ess in HB</mark>	116 - 131
-	-	-	Impac <mark>t in Joule</mark>	-
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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 29 1019	ASTM	USA	Steel and Bar	
A 510 1019	ASTM	USA	Wire Rod and Round Wire	
A 512 Grade 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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