

Material: ASTM A 29 1018

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 1018 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 %	0.600 - 0.900		
Phosphorus	P %	0.040 max.		
Sulphur	S %	0.050 max.		
Aluminium	Al %	0.020 max.		
Boron	B %	0.100 max.		
Copper	Cu %	0.200 max.		
Niobium	Nb %	0.025 max.		
Silicon	Si %	0.10 max.		
Vanadium	V %	0.050 max.		
Iron	Fe %	Balance	Mechanical Properties	
-	-	-	Tensile Strength in Mpa	380 - 690
-	-	-	Yield Strength in Mpa	220 min.
-	-	-	Elongation in %	13 min.
-	-	-	Reduction of Area in %	35 min.
-	-	-	Hardness in HB	241 max.
-	-	-	Impact in Joule	-

Cross Reference Table			
Material	Standard	Country	Grade Belong to the Industry
G10180	UNS	USA	Bars, Wire Rods and Tubing
1018	SAE	USA	Steel
1018	AISI	USA	Tubing
A 1040 1018	ASTM	USA	Steel
A 108 Grade 1018	ASTM	USA	Steel and Bar
A 311 1018 Class A	ASTM	USA	Steel and Bar
A 510 1018	ASTM	USA	Wire Rod and Round Wire

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