

Material: ASTM A 29 1021

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 1021 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 %	0.180 - 0.230	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.		
Boron	B %	0.0005 - 0.003		
Copper	Cu %	0.200 max.		
Silicon	Si %	0.100 max.		
Aluminium	Al %	0.020 max.		
Niobium	Nb %	0.025 max.		
Vanadium	V %	0.050 max.		
Iron	Fe %	Balance	Mechanical Properties	
-	-	-	Tensile Strength in Mpa	345 min.
-	-	-	Yield Strength in Mpa	230 min.
-	-	-	Elongation in %	5 min.
-	-	-	Reduction of Area in %	40 - 48
-	-	-	Hardness in HB	116 - 131
-	-	-	Impact in Joule	-

Cross Reference Table			
Material	Standard	Country	Grade Belong to the Industry
G10210	UNS	USA	Bars, Wire Rods and Tubing
1021	SAE	USA	Bending and Flaring
1021	AISI	USA	Tubing
A 1040 1021	ASTM	USA	Steel
A 510 1021	ASTM	USA	Wire Rod and Round Wire
A 512 Grade 1021	ASTM	USA	Tubing
A 513 Grade 1021	ASTM	USA	Tubing

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