

Material: ASTM A 513 Grade 1022

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 1022 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 %	0.180 - 0.230	As Raw or Annealing or Normalizing or Hardening and Tempering	
Manganese	Mn %	0.700 - 1.000		
Phosphorus	P %	0.035 max.		
Sulphur	S %	0.035 max.		
Iron	Fe %	Balance		
-	-	-		
-	-	-	Mechanical Properties Tensile Strength in Mpa 379 min. Yield Strength in Mpa 230 min. Elongation in % 15 min. Reduction of Area in % 40 - 47 Hardness in HB 121 - 137 Impact in Joule -	
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Cross Reference Table			
Material	Standard	Country	Grade Belong to the Industry
G10220	UNS	USA	Bars, Wire Rods and Tubing
1022	SAE	USA	Steel, Bar and Forging
1022	AISI	USA	Steel, Bar and Forging
A 1040 1022	ASTM	USA	Steel
A 108 Grade 1022	ASTM	USA	Steel and Bar
A 29 1022	ASTM	USA	Steel and Bar
A 510 1022	ASTM	USA	Wire Rod and Round Wire

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