

Material: SAE J403 | SAE J1397 UNS G10220 - Cold Drawn

Standard Specification For Carbon Steel Compositions For Forging To Hot-Rolled And Cold-Finished Bars, To Wire Rods, Plates, Strip, Sheets and Tubing

Group: Ferrous Mild Steel Alloys

Sub Group: SAE J403 | SAE J1397 UNS G10220 - Cold Drawn Carbon Steel Compositions For Forging To Hot-Rolled And Cold-Finished Bars, Wire Rods, Plates, Strip, Sheets and Tubing

Application: Intended for Valve, Pump, General Engineering, Automotive and Other Industries

Grade Belongs to the Industry: Bars, Wire Rods, Plates, Strip, Sheets and 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 %	0.030 max.	
Sulphur	S %	0.050 max.	
Iron	Fe %	Balance	
-	-	-	
-	-	-	
-	-	-	
-	-	-	
-	-	-	
Mechanical Properties			
			Tensile Strength in Mpa
			480 min.
			Yield Strength in Mpa
			400 min.
			Elongation in %
			15 min.
			Reduction of Area in %
			40 min.
			Hardness in HB
			137 max.
			Impact in Joule
			-

Cross Reference Table			
Material	Standard	Country	Grade Belong to the Industry
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
A 513 Grade 1022	ASTM	USA	Tubing

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