

Material: SAE 1022

Standard Specification For Carbon Steel Compositions For Forging To Hot-Rolled And Cold-Finished Steel, Bar and Forging

Group: Ferrous Mild Steel Alloys

Sub Group: SAE 1022 Carbon Steel Compositions For Forging To Hot-Rolled And Cold-Finished Steel, Bar and Forging

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

Grade Belongs to the Industry: Steel, Bar and Forging

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 %	0.040 max.	
Sulphur	S %	0.050 max.	
Aluminium	Al %	0.020 - 0.050	
Niobium	Nb %	0.020 - 0.050	
Silicon	Si %	0.150 - 0.350	
Vanadium	V %	0.020 - 0.080	
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
			-

Cross Reference Table			
Material	Standard	Country	Grade Belong to the Industry
G10220	UNS	USA	Bars, Wire Rods and Tubing
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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