

Material: AISI 1020

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

Group: Ferrous Mild Steel Alloys

Sub Group: AISI 1020 Carbon Steel Compositions For Forging To Hot-Rolled And Cold-Finished Sheet, Strip and

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

Grade Belongs to the Industry: Sheet, Strip and Plate

Chemical Composition			Heat Treatment	
Carbon	C %	0.170 - 0.230	As Raw or Annealing or Normalizing or Hardening and Tempering	
Manganese	Mn %	0.300 - 0.600		
Phosphorus	P %	0.040 max.		
Sulphur	S %	0.050 max.		
Iron	Fe %	Balance		
-	-	-		
-	-	-		
-	-	-		
-	-	-		
-	-	-		
			Mechanical Properties	
			Tensile Strength in Mpa	330 - 690
			Yield Strength in Mpa	195 min.
			Elongation in %	5 min.
			Reduction of Area in %	40 - 50
			Hardness in HB	111 - 121
			Impact in Joule	47.6 - 69.7 J @ RT

Cross Reference Table			
Material	Standard	Country	Grade Belong to the Industry
G10200	UNS	USA	Bars, Wire Rods and Tubing
1020	SAE	USA	Sheet, Strip and Plate
A 1040 1020	ASTM	USA	Steel
A 108 Grade 1020	ASTM	USA	Steel and Bar
A 29 1020	ASTM	USA	Steel and Bar
A 29 M1020	ASTM	USA	Steel and Bar
A 510 1020	ASTM	USA	Wire Rod and Round Wire

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