

Material: SAE J403 | SAE J1397 UNS G10380 - Cold Drawn Standard Specification For Carbon Steel Compositions For Forging To Hot-Rolled And Cold-Finished Bars, To Wire Rods, Plates, Strip, Sheets, Tubing

Group: Ferrous Mild Steel Alloys

Sub Group: SAE J403 | SAE J1397 UNS G10380 - 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 %	0.350 - 0.420	As Raw or Annealing or Normalizing or Hardening and Tempering	
Manganese	Mn %	0.600 - 0.900		
Phosphorus	P %	0.030 max.		
Sulphur	S %	0.050 max.		
Iron	Fe %	Balance		
-	-	-		
-	-	-		
-	-	-		
-	-	-		
-	-	-		
			Mechanical Properties	
-	-	-	Tensile Strength in Mpa	570 min.
-	-	-	Yield Strength in Mpa	480 min.
-	-	-	Elongation in %	12 min.
-	-	-	Reduction of Area in %	35 min.
-	-	-	Hardness in BHN	163 max.
-	-	-	Impact in Joule	-

Cross Reference Table			
Material	Standard	Country	Grade Belong to the Industry
1038	SAE	USA	Bars, Wire Rods, Plates, Strip, Sheets and Tubing
1038	AISI	USA	Steel and Bar
A 1040 1038	ASTM	USA	Steel
A 29 1038	ASTM	USA	Steel and Bar
A 510 1038	ASTM	USA	Wire Rod and Round Wire
A 576 10L38	ASTM	USA	Steel and Bar
A 830 1038	ASTM	USA	Plates and Steel

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