

**Material: SAE J403 | SAE J1397 UNS G10180 - 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 G10180 - 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 %	0.150 - 0.200	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
			440 min.
			Yield Strength in Mpa
			370 min.
			Elongation in %
			15 min.
			Reduction of Area in %
			40 min.
			Hardness in HB
			126 max.
			Impact in Joule
			-

Cross Reference Table			
Material	Standard	Country	Grade Belong to the Industry
1018	SAE	USA	Steel
1018	AISI	USA	Tubing
A 1040 1018	ASTM	USA	Steel
A 108 Grade 1018	ASTM	USA	Steel and Bar
A 29 1018	ASTM	USA	Steel and Bar
A 311 1018 Class A	ASTM	USA	Steel and Bar
A 510 1018	ASTM	USA	Wire Rod and Round Wire

**Disclaimer:** All information displayed in our data sheets are for reference purpose only and are sole property of their respective owners. Information and or material are used for educational purposes only. Data at actual may vary at actual and case to case basis. ICAST Alloys LLP does not guarantee validity of these parameters. Warranties and liabilities are exclusive to our terms and conditions of business.

Customer Care: +91-99090 45075 Email: [info@icastllp.com](mailto:info@icastllp.com)