

# Material: SAE J403 | J1397 UNS G10160 - 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 Stainless Steel Alloys

**Sub Group:** SAE J403 | J1397 UNS G10160 - 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 %	0.130 - 0.180	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	420 min.
-	-	-	Yield Strength in Mpa	350 min.
-	-	-	Elongation in %	18 min.
-	-	-	Reduction of Area in %	40 min.
-	-	-	Hardness in HB	121 max.
-	-	-	Impact in Joule	-

Cross Reference Table			
Material	Standard	Country	Grade Belong to the Industry
1016	SAE	USA	Bars, Wire Rods and Tubing
1016	AISI	USA	Tubing
A 1040 1016	ASTM	USA	Steel
A 108 Grade 1016	ASTM	USA	Steel and Bar
A 29 1016	ASTM	USA	Steel and Bar
A 510 1016	ASTM	USA	Wire Rods
A 512 Grade 1016	ASTM	USA	Tubing

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