

## Material: ASTM A 713 G10780

### Standard Specification For Carbon Steel Compositions For Forging To Hot-Rolled Steel and Wire

**Group:** Ferrous Mild Steel Alloys

**Sub Group:** ASTM A 713 G10780 Carbon Steel Compositions For Forging To Hot-Rolled Steel and Wire

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

**Grade Belongs to the Industry:** Steel and Wire

Chemical Composition			Heat Treatment	
Carbon	C %	0.720 - 0.850	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		
-	-	-		
-	-	-	<b>Mechanical Properties</b> Tensile Strength in Mpa 650 - 690 Yield Strength in Mpa 380 min. Elongation in % 10 min. Reduction of Area in % 30 - 40 Hardness in HB 192 - 207 Impact in Joule -	
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-	-	-		
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Cross Reference Table			
Material	Standard	Country	Grade Belong to the Industry
G10780	UNS	USA	Bars, Wire Rods, Plates, Strip, Sheets and Tubing
1078	SAE	USA	Steel
1078	AISI	USA	Steel and Bar
A 830 G10780	ASTM	USA	Plate and Steel
A 576 10L78	ASTM	USA	Steel and Bar
A 830 1078	ASTM	USA	Plate and Steel
A 713 Grade 1078	ASTM	USA	Steel and Wire

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