



Material - ASTM A 576 10L78

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

Group - Ferrous Mild Steel Alloys

Sub Group - ASTM A 576 10L78 Carbon Steel Compositions For Forging To Hot-Rolled Steel and Bar Application - Intended for Valve, Pump, General Engineering, Automotive and Other Industries Grade Belongs to the Industry - Steel and Bar

Chemical Composition			Heat Treatment	
Carbon	C %	0.720 - 0.850		
Manganese	Mn %	0.300 - 0.600	As Raw or Annealing or Normalizing or Hardening and Tempering	
Phosphorus	Р%	0.040 max.		lizing or Hardoning and
Sulphur	S %	0.050 max.		v
Boron	В%	0.0005 - 0.003		
Copper	Cu %	0.200 min.		
Lead	Pb %	0.150 - 0.350		
Silicon	Si %	0.100 max.		
Iron	Fe %	Balance	Mechanical Properties	
-	-	-	Tensile Strength in Mpa	650 - 690
	-	-	Yield Strength in Mpa	380 min.
	-	-	Elongation in %	10 min.
	-	-	Reduction of Area in %	30 - 40
-	-	-	Hardn <mark>ess in HB</mark>	192 - 207
-	-	-	Impa <mark>ct in Joule</mark>	-

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 713 G10780	ASTM	USA	Steel and Wire	
A 830 1078	ASTM	USA	Plate and Steel	
A 713 Grade 1078	ASTM	USA	Steel and Wire	

Further any inquiry to discuss with Gravity Cast Pvt. Ltd. – Gravity Group of Companies team member Call on +918469160029, or email marketing@gravitycastindia.com

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