



Material - SAE 1078

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

Group - Ferrous Mild Steel Alloys

Sub Group - SAE 1078 Carbon Steel Compositions For Forging To Hot-Rolled Steel
Application - Intended for Valve, Pump, General Engineering, Automotive and Other Industries
Grade Belongs to the Industry - Steel

Chemical Composition			Heat Treatment	
Carbon	C %	0.700 - 0.850	As Raw or Annealing or Normalizing or Hardening and Tempering	
Manganese	Mn %	0.300 - 0.600		
Phosphorus	P %	0.030 max.		alizing or Hardoning and
Sulphur	S %	0.035 max.		
Boron	В%	0.0005 - 0.003		
Chromium	Cr %	0.150 max.		
Copper	Cu %	0.200 min.		
Molybdenum	Mo %	0.060 max.		_
Nickel	Ni %	0.200 max.	Mechanical Properties	
Lead	Pb %	0.150 - 0.350	Tensile Strength in Mpa	650 - 690
Iron	Fe %	Balance	Yield Strength in Mpa	380 min.
-	-	-	Elongation in %	10 min.
-	-	-	Reduction of Area in %	30 - 40
-	-	-	Hardness in HB	192 - 207
-	-	-	Impac <mark>t 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	AISI	USA	Steel and Bar	
A 830 G10780	ASTM	USA	Plate and Steel	
A 713 G10780	ASTM	USA	Steel and Wire	
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	

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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