



Material - ASTM A 1040 1212

Standard Specification For Carbon Steel Compositions For Forging To Hot-Rolled And Cold-Finished Steel

Group - Ferrous Mild Steel Alloys

Sub Group - ASTM A 1040 1212 Carbon Steel Compositions For Forging To Hot-Rolled And Cold-Finished Steel Application - Intended for Valve, Pump, General Engineering, Automotive and Other Industries Grade Belongs to the Industry - Steel

Chemical Composition			Heat Treatment	
Carbon	C %	0.130 max.		
Manganese	Mn %	0.700 - 1.000	As Raw or Annealing or Normalizing or Hardening and Tempering	
Phosphorus	P %	0.070 - 0.120		alizing or Hardoning and
Sulphur	S %	0.160 - 0.230		°
Silicon	Si %	0.100 max.		i ig
Iron	Fe %	Balance		
-	-	-		
-	-	-		
-	-	-	Mechanical Properties	
-	-	-	Tensile Strength in Mpa	390 - 540
-	-	-	Yield Strength in Mpa	230 min.
	-	-	Elongation in %	10 min.
-	-	-	Reduction of Area in %	35 - 45
-	-	-	Hardn <mark>ess in HB</mark>	110 - 255
-	-	-	Impa <mark>ct in Joule</mark>	-

Cross Reference Table				
Material	Standard	Country Grade Belong to the Industry		
G12120	UNS	USA	Bars, Wire Rods, Plates, Strip, Sheets and Tubing	
1212	SAE	USA	Bars, Wire Rods, Plates, Strip, Sheets and Tubing	
1212	AISI	USA	Steel and Bar	
A 576 1212	ASTM	USA	Steel and Bar	
SA-29 1212	ASME	USA	Steel	
A 108 Grade 1212	ASTM	USA	Steel and Bar	
A 29 1212	ASTM	USA	Steel and Bar	

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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