

## Material - ASTM A 108 Grade 1212

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

**Group - Ferrous Mild Steel Alloys** 

Sub Group - ASTM A 108 Grade 1212 Carbon Steel Compositions For Forging To Hot-Rolled And Cold-Finished 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 %	0.130 max.		
Manganese	Mn %	0.700 - 1.000	As Raw or Annealing or Normalizing or Hardening and Tempering	
Phosphorus	P %	0.070 - 0.120		
Sulphur	S %	0.160 - 0.230		
Lead	Pb %	0.150 - 0.350		
Iron	Fe %	Balance		
-	-	-		
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-	-	-	Mechanical Properties	
-	-	-	Tensile Strength in Mpa	390 - 540
-	-	-	Yield Strength in Mpa	230 min.
-	-	-	Elongation in %	10 min.
-	-	-	Reduction of Area in %	35 - 45
-	-	-	Hardness in HB	110 - 255
-	-	-	Impac <mark>t 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 1040 1212	ASTM	USA	Steel		
A 576 1212	ASTM	USA	Steel and Bar		
SA-29 1212	ASME	USA	Steel		
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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