

Material - SAE J403 I SAE J1397 UNS G12120 - Hot Rolled

Standard Specification For Carbon Steel Compositions For Forging To Hot-Rolled And Cold-Finished Bars, To Wire Rods, Plates, Strip, Sheets and Tubing

Group - Ferrous Mild Steel Alloys

Sub Group - SAE J403 I SAE J1397 UNS G12120 - Hot Rolled Carbon Steel Compositions For Forging To Hot-Rolled And Cold-Finished Bars, Wire Rods, Plates, Strip, Sheets and Tubing

Application - Intended for Valve, Pump, General Engineering, Automotive and Other Industries Grade Belongs to the Industry - Bars, Wire Rods, Plates, Strip, Sheets and Tubing

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		
Iron	Fe %	Balance		
-	-	-		
-	-	-		
-	-	-		
-	-	-	Mechanical Pro	perties
-	-	-	Tensile Strength in Mpa	390 min.
-	-	-	Yield Strength in Mpa	230 min.
-	-	-	Elongation in %	25 min.
-	-	-	Reduction of Area in %	45 min.
-	-	-	Hardness in BHN	121 max.
-	-		Impact in Joule	-

Cross Reference Table					
Material	Standard	Country	Grade Belong to the Industry		
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 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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