GRAVITY CAST PVT. LTD.
GRAVITY GROUP OF COMPANIES

Material - ASTM A1031 4012

Standard Specification for Steel, Sheet and Strip, Heavy-Thickness Coils, Alloy, Drawing Steel and Structural Steel, Hot-Rolled

Group - Ferrous Mild Steel Alloys

Sub Group - ASTM A1031 4012 Steel, Sheet and Strip, Heavy-Thickness Coils, Alloy, Drawing Steel and Structural Steel, Hot-Rolled

Application - Intended for Valve, Pump, General Engineering, Automotive and other Industries

Grade Belongs to the Industry - Sheet and Strip

Chemical Composition		
Carbon	C %	0.090 - 0.140
Manganese	Mn %	0.750 - 1.000
Phosphorus	P %	0.040 max.
Sulphur	S %	0.040 max.
Silicon	Si %	0.150 - 0.300
Molybdenum	Mo %	0.150 - 0.250
Iron	Fe %	Balance
-	-	-
-	-	-
-	-	-
-	-	-
-	-	-
-	-	-
-	-	-

Heat Treatment
As-Raw or Annealing or Spheroidizing Annealing or Normalizing or Normalizing & Tempering

Mechanical Properties	
Tensile Strength in Mpa	-
Yield Strength in Mpa	-
Elongation in %	-
Reduction of Area in %	-
Hardness in HB	-
Impact in Joule	-

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Cross Reference Table			
Material	**Standard**	**Country**	**Grade Belong to the Industry**
G40120	UNS	USA	Sheet and Strip
SAE J 1249 4012	AISI	USA	Steel
J 1249 4012	SAE	USA	Steel
A 29 4012	ASTM	USA	Steel and Bars
A 505 4012	ASTM	USA	Sheet and Strip
A 519 4012	ASTM	USA	Tubing
A 752 Grade 4012	ASTM	USA	Steel and Wire Rods

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

All information in our data sheets and website is indicative only and is not intended to be a substitute for the full specification from which it is extracted. It is intended to provide typical values to allow comparison between metal alloy option rather than a definitive statement of mechanical performance or suitability for a particular application as these will vary with temperature, product type and product application. It is presented apart from contractual obligations and does not constitute any guarantee of properties or of processing or application possibilities in individual cases. Our warranties and liabilities are stated exclusively in our terms of business.