GRAVITY CAST PVT. LTD.
GRAVITY GROUP OF COMPANIES

Material - ASTM A29 4012

Standard Specification for Steel Bars, Carbon and Alloy, Hot-Wrought, General Requirements for

Group - Ferrous Mild Steel Alloys
Sub Group - ASTM A29 4012 Steel Bars, Carbon and Alloy, Hot-Wrought, General Requirements for
Application - Intended for Valve, Pump, General Engineering, Automotive and Other Industries
Grade Belongs to the Industry - Steel and Bars

Chemical Composition		
Carbon	C %	0.090 - 0.140
Manganese	Mn %	0.750 - 1.000
Phosphorus	P %	0.035 max.
Sulphur	S %	0.040 max.
Silicon	Si %	0.150 - 0.350
Molybdenum	Mo %	0.150 - 0.250
Iron	Fe %	Balance
-	-	-
-	-	-
-	-	-
-	-	-
-	-	-
-	-	-
-	-	-
-	-	-

Heat Treatment
As-Raw or Annealing or Normalizing or Hardening + 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	Steel
SAE J 1249 4012	AISI	USA	Steel
J 1249 4012	SAE	USA	Steel
SA-29 Grade 4012	ASME	USA	Steel and Bars
A 519 4012	ASTM	USA	Steel and Tubing
A 752 Grade 4012	ASTM	USA	Steel and Wire Rods
A 322 4012	ASTM	USA	Steel and Bars

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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