GRAVITY CAST PVT. LTD.
GRAVITY GROUP OF COMPANIES

Material - ASME SA-266 Grade 2

Standard Specification for Carbon Steel Forgings for Pressure Vessel Components

Group - Ferrous Mild Steel Alloys

Sub Group - ASME SA-266 Grade 2 Carbon Steel Forgings for Pressure Vessel Components

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

Grade Belongs to the Industry - Forgings

Chemical Composition		
Carbon	C %	0.300 max.
Manganese	Mn %	0.400 - 1.050
Phosphorus	P %	0.025 max.
Sulphur	S %	0.025 max.
Silicon	Si %	0.150 - 0.350
Iron	Fe %	Balance
-	-	-
-	-	-
-	-	-
-	-	-
-	-	-
-	-	-
-	-	-
-	-	-
-	-	-

Heat Treatment
Annealing or Normalising or Normalising & Tempering or Quenching & Tempering

Mechanical Properties	
Tensile Strength in Mpa	485 - 655
Yield Strength in Mpa	250 min.
Elongation in %	18 min.
Reduction of Area in %	33 min.
Hardness in HB	-
Impact in Joule	-

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Cross Reference Table			
Material	**Standard**	**Country**	**Grade Belong to the Industry**
G40230	UNS	USA	Steel
4023	AISI	USA	Steel
SAE J 1249 4012	AISI	USA	Steel
J 1249 4012	SAE	USA	Steel
A 519 4012	ASTM	USA	Steel and Tubing
A 752 Grade 4012	ASTM	USA	Steel and Wire Rods
A 752 Grade 4023	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

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