GRAVITY CAST PVT. LTD.
GRAVITY GROUP OF COMPANIES

Material - ASTM A372 Grade D

Standard Specification for Carbon and Alloy Steel Forgings for Thin-Walled Pressure Vessels

Group - Ferrous Mild Steel Alloys
Sub Group - ASTM A372 Grade D Carbon and Alloy Steel Forgings for Thin-Walled Pressure Vessels
Application - Intended for Valve, Pump, General Engineering, Automotive and other Industries
Grade Belongs to the Industry - Forging

Chemical Composition		
Carbon	C %	0.400 - 0.500
Manganese	Mn %	1.400 - 1.800
Phosphorus	P %	0.025 max.
Sulphur	S %	0.025 max.
Silicon	Si %	0.150 - 0.350
Molybdenum	Mo %	0.170 - 0.270
Iron	Fe %	Balance
-	-	-
-	-	-
-	-	-
-	-	-
-	-	-
-	-	-
-	-	-

Heat Treatment
As-Raw or Normalizing or Normalizing & Tempering or Quenching & Tempering

Mechanical Properties	
Tensile Strength in Mpa	725 - 895
Yield Strength in Mpa	450 min.
Elongation in %	15 min.
Reduction of Area in %	-
Hardness in HB	217 min.
Impact in Joule	-

www.gravitycastindia.com

Cross Reference Table			
Material	**Standard**	**Country**	**Grade Belong to the Industry**
K14508	UNS	USA	Steel
SA-372 Grade D	ASME	USA	Forging
SA-372 Type IV	ASME	USA	Forging
323 43 MoMn 16	STAS	Romania	Steel
824 C-75	STAS	Romania	Steel and Pipe
1.5432	DIN	Germany	Steel
42 MnMo 7	DIN	Germany	Steel

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.