GRAVITY CAST PVT. LTD.
GRAVITY GROUP OF COMPANIES

Material - ASTM A473 Type 414

Standard Specification for Stainless Steel Forgings

Group - Ferrous Stainless Steel Alloys

Sub Group - ASTM A473 Type 414 Stainless Steel Forgings

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

Grade Belongs to the Industry - Forging

Chemical Composition		
Carbon	C %	0.150 max.
Manganese	Mn %	1.000 max.
Phosphorus	P %	0.040 max.
Sulphur	S %	0.030 max.
Silicon	Si %	1.000 max.
Chromium	Cr %	11.500 - 13.500
Nickel	Ni %	1.250 - 2.500
Iron	Fe %	Balance
-	-	-
-	-	-
-	-	-
-	-	-
-	-	-
-	-	-

Heat Treatment
As-Raw or Normalizing or Quenching & Tempering

Mechanical Properties	
Tensile Strength in Mpa	860 min.
Yield Strength in Mpa	690 min.
Elongation in %	15 min.
Reduction of Area in %	45 min.
Hardness in HRC	321 max.
Impact in Joule	-

www.gravitycastindia.com

Cross Reference Table			
Material	**Standard**	**Country**	**Grade Belong to the Industry**
S41400	UNS	USA	Steel
SAE AMS-QQ-S-763 414	AISI	USA	Steel
SAE J 405 414	AISI	USA	Steel
AMS-QQ-S-763 414	SAE	USA	Steel, Bars, Wire, Shapes and Forging
J 412 51414	SAE	USA	Steel
A 276 414	ASTM	USA	Bars and Shapes
SA-276 414	ASME	USA	Bars and Shapes

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.