GRAVITY CAST PVT. LTD.
GRAVITY GROUP OF COMPANIES

Material - ASTM A470 Grade A Class 2

Standard Specification for Vacuum-Treated Carbon and Alloy Steel Forgings for Turbine Rotors and Shafts

Group - Ferrous Mild Steel Alloys

Sub Group - ASTM A470 Grade A Class 2 Vacuum-Treated Carbon and Alloy Steel Forgings for Turbine Rotors and Shafts

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

Grade Belongs to the Industry - Forging

Chemical Composition		
Carbon	C %	0.220 - 0.300
Manganese	Mn %	0.200 - 0.600
Phosphorus	P %	0.012 max.
Sulphur	S %	0.012 max.
Silicon	Si %	0.100 - 0.300
Nickel	Ni %	3.200 - 3.700
Chromium	Cr %	0.750 max.
Molybdenum	Mo %	0.400 - 0.600
Vanadium	V %	0.040 - 0.120
Aluminium	Al %	0.015 max.
Iron	Fe %	Balance
-	-	-
-	-	-
-	-	-
-	-	-

Heat Treatment
As-Raw or Double-Normalizing or Tempering

Mechanical Properties	
Tensile Strength in Mpa	550 min.
Yield Strength in Mpa	415 min.
Elongation in %	22 min.
Reduction of Area in %	50 min.
Hardness in HB	-
Impact in Joule	38 @ RT

www.gravitycastindia.com

Cross Reference Table			
Material	**Standard**	**Country**	**Grade Belong to the Industry**
1.6347	DIN	Germany	Steel
26 NiMoV 14-4	DIN	Germany	Steel
1.2735	DIN	Germany	Steel
15 NiCr 14	DIN	Germany	Steel
970-3 832 M 13	B.S.	United Kingdom	Steel
15 ChA	BDS	Bulgaria	Steel
41 6420 16420	CSN	Czech Republic	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.