GRAVITY CAST PVT. LTD.
GRAVITY GROUP OF COMPANIES

Material - ASTM A471 Class 6

Standard Specification for Vacuum-Treated Alloy Steel Forgings for Turbine Rotor Disks and Wheels

Group - Ferrous Mild Steel Alloys
Sub Group - ASTM A471 Class 6 Vacuum-Treated Alloy Steel Forgings for Turbine Rotor Disks and Wheels
Application - Intended for Valve, Pump, General Engineering, Automotive and other Industries
Grade Belongs to the Industry - Forging

Chemical Composition		
Carbon	C %	0.280 max.
Manganese	Mn %	0.700 max.
Phosphorus	P %	0.012 max.
Sulphur	S %	0.015 max.
Silicon	Si %	0.150 - 0.350
Nickel	Ni %	2.000 - 4.000
Chromium	Cr %	0.750 - 2.000
Molybdenum	Mo %	0.200 - 0.700
Vanadium	V %	0.050 min.
Iron	Fe %	Balance
-	-	-
-	-	-
-	-	-
-	-	-
-	-	-

Heat Treatment
As-Raw or Quenching & Tempering

Mechanical Properties	
Tensile Strength in Mpa	965 min.
Yield Strength in Mpa	895 - 1035
Elongation in %	15 min.
Reduction of Area in %	43 min.
Hardness in HB	-
Impact in Joule	40 @ RT

www.gravitycastindia.com

Cross Reference Table			
Material	**Standard**	**Country**	**Grade Belong to the Industry**
K42365	UNS	USA	Steel
A 372 Grade M Class 85	ASTM	USA	Forging
A 508 Grade 5 Class 1	ASTM	USA	Forging
A 508 Grade 5 Class 2	ASTM	USA	Forging
A 541 Grade 4N Class 1	ASTM	USA	Forging
A 541 Grade 4N Class 2	ASTM	USA	Forging
A 541 Grade 4N Class 3	ASTM	USA	Forging

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.