GRAVITY CAST PVT. LTD.
GRAVITY GROUP OF COMPANIES

Material - ASTM A471 Class 3

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

Group - Ferrous Mild Steel Alloys
Sub Group - ASTM A471 Class 3 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	760 min.
Yield Strength in Mpa	690 - 825
Elongation in %	18 min.
Reduction of Area in %	47 min.
Hardness in HB	-
Impact in Joule	45 @ RT

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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

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