GRAVITY CAST PVT. LTD.
GRAVITY GROUP OF COMPANIES

Material - ASTM A471 Class 14

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

Group - Ferrous Mild Steel Alloys
Sub Group - ASTM A471 Class 14 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 %	0.450 max.
Manganese	Mn %	0.600 - 1.000
Phosphorus	P %	0.012 max.
Sulphur	S %	0.015 max.
Silicon	Si %	0.150 - 0.350
Nickel	Ni %	1.650 - 3.500
Chromium	Cr %	0.500 - 1.250
Molybdenum	Mo %	0.200 min.
Iron	Fe %	Balance
-	-	-
-	-	-
-	-	-
-	-	-
-	-	-
-	-	-

Heat Treatment
As-Raw or Quenching & Tempering

Mechanical Properties	
Tensile Strength in Mpa	860 min.
Yield Strength in Mpa	725 - 860
Elongation in %	18 min.
Reduction of Area in %	45 min.
Hardness in HB	255 - 302
Impact in Joule	20 @ RT

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Cross Reference Table			
Material	**Standard**	**Country**	**Grade Belong to the Industry**
34 HN 3 M	PN	Poland	Steel
1.2743	DIN	Germany	Steel
60 NiCrMoV 12-4	DIN	Germany	Steel
1.2768	DIN	Germany	Steel
25 NiCrMo 12	DIN	Germany	Steel
6924 30 NiCrMo 12	UNI	Italy	Steel
6786 31 NiCrMo 12	UNI	Italy	Steel and 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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