GRAVITY CAST PVT. LTD.
GRAVITY GROUP OF COMPANIES

Material - ASTM A470 Grade B Class 4

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 B Class 4 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	725 min.
Yield Strength in Mpa	620 min.
Elongation in %	17 min.
Reduction of Area in %	45 min.
Hardness in HB	-
Impact in Joule	27.2 @ RT

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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

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