GRAVITY CAST PVT. LTD.
GRAVITY GROUP OF COMPANIES

Material - ASTM A470 Grade C Class 5

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 C Class 5 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 %	0.280 max.
Manganese	Mn %	0.200 - 0.600
Phosphorus	P %	0.012 max.
Sulphur	S %	0.015 max.
Silicon	Si %	0.150 - 0.300
Nickel	Ni %	3.250 - 4.000
Chromium	Cr %	1.250 - 2.000
Molybdenum	Mo %	0.250 - 0.600
Vanadium	V %	0.050 - 0.150
Aluminium	Al %	0.015 max.
Iron	Fe %	Balance
-	-	-
-	-	-
-	-	-
-	-	-

Heat Treatment
As-Raw or Normalizing or Quenching & Tempering

Mechanical Properties	
Tensile Strength in Mpa	620 - 760
Yield Strength in Mpa	520 min.
Elongation in %	20 min.
Reduction of Area in %	52 min.
Hardness in HB	-
Impact in Joule	68 @ RT

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Cross Reference Table			
Material	**Standard**	**Country**	**Grade Belong to the Industry**
K42885	UNS	USA	Steel
1.6952	DIN	Germany	Steel
24 NiCrMoV 14-6	DIN	Germany	Steel
970 En30B	B.S.	United Kingdom	Steel
970-1 835 M 30	B.S.	United Kingdom	Steel
970-2 835 M 30	B.S.	United Kingdom	Steel
10083-1 1.6773	EN	European Union	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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