GRAVITY CAST PVT. LTD.
GRAVITY GROUP OF COMPANIES

Material - ASTM A469 Class 3

Standard Specification for Vacuum-Treated Steel Forgings for Generator Rotors

Group - Ferrous Mild Steel Alloys

Sub Group - ASTM A469 Class 3 Vacuum-Treated Steel Forgings for Generator Rotors

Application - Intended for Valve, Pump, General Engineering, Automotive and other Industries

Grade Belongs to the Industry - Forging

Chemical Composition		
Carbon	C %	0.270 max.
Manganese	Mn %	0.600 max.
Phosphorus	P %	0.015 max.
Sulphur	S %	0.015 max.
Silicon	Si %	0.150 - 0.300
Nickel	Ni %	2.500 min.
Chromium	Cr %	0.500 max.
Molybdenum	Mo %	0.200 - 0.500
Vanadium	V %	0.030 min.
Iron	Fe %	Balance
-	-	-
-	-	-
-	-	-
-	-	-
-	-	-

Heat Treatment
As-Raw

Mechanical Properties	
Tensile Strength in Mpa	620 min.
Yield Strength in Mpa	485 min.
Elongation in %	20 min.
Reduction of Area in %	50 min.
Hardness in HB	-
Impact in Joule	41 @ RT

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Cross Reference Table			
Material	**Standard**	**Country**	**Grade Belong to the Industry**
K22573	UNS	USA	Steel
K22773	UNS	USA	Steel
K23028	UNS	USA	Steel
K23578	UNS	USA	Steel
K23579	UNS	USA	Steel
G 5102 SCW 620	JIS	Japan	Casting
A 470 Grade E	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.