GRAVITY CAST PVT. LTD.
GRAVITY GROUP OF COMPANIES

# Material - ASTM A469 Class 5

## Standard Specification for Vacuum-Treated Steel Forgings for Generator Rotors

**Group - Ferrous Mild Steel Alloys**

**Sub Group - ASTM A469 Class 5 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 % | 0.310 max. |
| Manganese | Mn % | 0.700 max. |
| Phosphorus | P % | 0.015 max. |
| Sulphur | S % | 0.015 max. |
| Silicon | Si % | 0.150 - 0.300 |
| Nickel | Ni % | 3.000 min. |
| Chromium | Cr % | 0.500 max. |
| Molybdenum | Mo % | 0.200 - 0.700 |
| Vanadium | V % | 0.050 - 0.150 |
| Iron | Fe % | Balance |
| - | - | - |
| - | - | - |
| - | - | - |
| - | - | - |
| - | - | - |

| Heat Treatment |
|---|
| As-Raw |

| Mechanical Properties | |
|---|---|
| Tensile Strength in Mpa | 760 min. |
| Yield Strength in Mpa | 620 min. |
| Elongation in % | 15 min. |
| Reduction of Area in % | 40 min. |
| Hardness in HB | - |
| Impact in Joule | 20 @ RT |

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| Cross Reference Table | | | |
|---|---|---|---|
| **Material** | **Standard** | **Country** | **Grade Belong to the Industry** |
| K32723 | UNS | USA | Steel |
| K33125 | UNS | USA | Steel |
| K33370 | UNS | USA | Steel |
| G 5102 SCW 550 | JIS | Japan | Casting |
| G 5201 SCW 570-CF | JIS | Japan | Casting |
| G 5102 SCW 620 | JIS | Japan | Casting |
| J 1268 4817 H | SAE | USA | 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**

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.