GRAVITY CAST PVT. LTD.
GRAVITY GROUP OF COMPANIES

# Material - ASTM A436 Type 1

## Standard Specification for Austenitic Gray Iron Castings

**Group - Ferrous Gray Iron Alloys**

**Sub Group - ASTM A436 Type 1 Austenitic Gray Iron Castings**

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

**Grade Belongs to the Industry - Casting**

| Chemical Composition | | |
|---|---|---|
| Carbon | C % | 3.000 max. |
| Silicon | Si % | 1.000 - 2.800 |
| Manganese | Mn % | 0.500 - 1.500 |
| Nickel | Ni % | 13.500 - 17.500 |
| Copper | Cu % | 5.500 - 7.500 |
| Chromium | Cr % | 1.500 - 2.500 |
| Sulphur | S % | 0.120 max. |
| Iron | Fe % | Balance |
| - | - | - |
| - | - | - |
| - | - | - |
| - | - | - |
| - | - | - |
| - | - | - |

| Heat Treatment |
|---|
| As-Cast |

| Mechanical Properties | |
|---|---|
| Tensile Strength in Mpa | 172 min. |
| Yield Strength in Mpa | - |
| Elongation in % | - |
| Reduction of Area in % | - |
| Hardness in HB | 183 max. |
| Impact in Joule | - |

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| Cross Reference Table | | | |
|---|---|---|---|
| **Material** | **Standard** | **Country** | **Grade Belong to the Industry** |
| F41000 | UNS | USA | Casting |
| F47004 | UNS | USA | Casting |
| G 5510 FCA-NiCuCr 15 6 2 | JIS | Japan | Casting |
| 1694 GGL-NiCuCr 15 6 2 | DIN | Germany | Casting |
| 1694 0.6655 | DIN | Germany | Casting |
| AMS 5392 | SAE | USA | Casting |
| 32-301 FGL Ni15 Cu6 Cr2 | AFNOR NF | France | Casting |

**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.