GRAVITY CAST PVT. LTD.
GRAVITY GROUP OF COMPANIES

# Material - IS 2749 Grade AFG Ni 30 Si 5 Cr 5

## Standard Specification for Austenitic Iron Castings

**Group - Ferrous Austenitic SG Iron**

**Sub Group - IS 2749 Grade AFG Ni 30 Si 5 Cr 5 Austenitic Iron Castings**

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

**Grade Belongs to the Industry - Casting**

| Chemical Composition | | |
|---|---|---|
| Carbon | C % | 2.500 max. |
| Silicon | Si % | 5.000 - 6.000 |
| Manganese | Mn % | 0.500 - 1.500 |
| Nickel | Ni % | 29.000 - 32.000 |
| Chromium | Cr % | 4.500 - 5.500 |
| Copper | Cu % | 0.500 max. |
| Iron | Fe % | Balance |
| - | - | - |
| - | - | - |
| - | - | - |
| - | - | - |
| - | - | - |
| - | - | - |
| - | - | - |

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

| Mechanical Properties | |
|---|---|
| Tensile Strength in Mpa | 170 min. |
| Yield Strength in Mpa | - |
| Elongation in % | - |
| Reduction of Area in % | - |
| Hardness in HB | 210 max. |
| Impact in Joule | - |

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| Cross Reference Table | | | |
|---|---|---|---|
| **Material** | **Standard** | **Country** | **Grade Belong to the Industry** |
| NF A 32-301 FGL Ni30 Si5 Cr5 | AFNOR NF | France | Casting |
| NF A 32-301 FGS Ni30 Si5 Cr5 | AFNOR NF | France | Casting |
| F41005 | UNS | USA | Casting |
| A 436 Type 4 | ASTM | USA | Casting |
| G 5510 FCA-NiSiCr 30 5 5 | JIS | Japan | Casting |
| 7737 S-Ni Si Cr 30 5 5 | UNI | Italy | Casting |
| 1694 0.6680 | DIN | Germany | 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.