GRAVITY CAST PVT. LTD.
GRAVITY GROUP OF COMPANIES

# Material - IS 2004 65C6 Class 6

## Standard Specification for Carbon Steel Forgings for General Engineering Purposes

**Group - Ferrous Mild Steel Alloys**

**Sub Group - IS 2004 65C6 Class 6 Carbon Steel Forgings for General Engineering Purposes**

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

**Grade Belongs to the Industry - Forging**

| Chemical Composition | | |
|---|---|---|
| Carbon | C % | 0.600 - 0.700 |
| Silicon | Si % | 0.150 - 0.350 |
| Manganese | Mn % | 0.500 - 0.800 |
| Sulphur | S % | 0.040 max. |
| Phosphorus | P % | 0.040 max. |
| Nickel | Ni % | 0.300 max. |
| Chromium | Cr % | 0.300 max. |
| Copper | Cu % | 0.250 max. |
| Molybdenum | Mo % | 0.050 max. |
| Vanadium | V % | 0.050 max. |
| Tin | Sn % | 0.050 max. |
| Boron | B % | 0.0003 max. |
| Iron | Fe % | Balance |
| - | - | - |
| - | - | - |

| Heat Treatment |
|---|
| As-Raw or Normalizing |

| Mechanical Properties | |
|---|---|
| Tensile Strength in Mpa | 740 min. |
| Yield Strength in Mpa | 370 min. |
| Elongation in % | 10 min. |
| 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** |
| G 4802 S 65 C-CSP | JIS | Japan | Steel and Strip |
| G 3311 S 65 CM | JIS | Japan | Steel and Strip |
| G 3311 SK 7 M | JIS | Japan | Steel and Strip |
| 92602 DS 65 G | PN | Poland | Steel and Wire rods |
| 1071 68GA | GOST | Russia | Steel and Wire |
| 1071 65GA | GOST | Russia | Steel and Wire |
| 14959 65GA | GOST | Russia | Steel and Bars |

**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.