



**GRAVITY CAST PVT. LTD.**  
**GRAVITY GROUP OF COMPANIES**

## Material - IS 6912 Cu FHTB3

**Standard Specification for Copper and Copper Alloy Forging Stock and Forgings**

**Group - Non-Ferrous Copper Alloy**

**Sub Group - IS 6912 Copper and Copper Alloy Forging Stock and Forgings**

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

**Grade Belongs to the Industry - Forging**

| Chemical Composition |      |                 | Heat Treatment          |          |
|----------------------|------|-----------------|-------------------------|----------|
| Lead                 | Pb % | 0.200 - 0.800   | As Raw                  |          |
| Tin                  | Sn % | 0.300 max.      |                         |          |
| Iron                 | Fe % | 0.200 - 1.000   |                         |          |
| Aluminium            | Al % | 1.400 - 2.000   |                         |          |
| Manganese            | Mn % | 1.600 - 2.200   |                         |          |
| Nickel               | Ni % | 1.000 - 0.200   |                         |          |
| Silicon              | Si % | 0.500 - 1.000   |                         |          |
| Other                | Ot%  | 0.500 max.      |                         |          |
| Copper               | Cu % | 56.500 - 60.000 | Mechanical Properties   |          |
| Zinc                 | Zn % | Balance         | Tensile Strength in Mpa | 600 min. |
| -                    | -    | -               | Yield Strength in Mpa   | -        |
| -                    | -    | -               | Elongation in %         | 10 min.  |
| -                    | -    | -               | Reduction of Area in %  | -        |
| -                    | -    | -               | Hardness in HRB         | 85 min.  |
| -                    | -    | -               | Impact in Joule         | -        |

| Cross Reference Table |          |         |                              |
|-----------------------|----------|---------|------------------------------|
| Material              | Standard | Country | Grade Belong to the Industry |
| -                     | -        | -       | -                            |
| -                     | -        | -       | -                            |
| -                     | -        | -       | -                            |
| -                     | -        | -       | -                            |
| -                     | -        | -       | -                            |
| -                     | -        | -       | -                            |
| -                     | -        | -       | -                            |

**Further any inquiry to discuss with Gravity Cast Pvt. Ltd. – Gravity Group of Companies team member Call on +918469160029, or email [marketing@gravitycastindia.com](mailto: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.

**ONE STOP SOLUTION FOR METAL PARTS**