



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

## Material - BDS EN 1982 CB766S

**Standard Specification for Copper and Copper Alloys - Ingots and Castings**

**Group - Non-Ferrous Copper Alloy**

**Sub Group - BDS EN 1982 Copper and Copper Alloys - Ingots and Castings**

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

**Grade Belongs to the Industry - Ingot and Casting**

| Chemical Composition |         |                 | Heat Treatment          |          |
|----------------------|---------|-----------------|-------------------------|----------|
| Aluminium            | Al %    | 0.600 - 1.800   | As-Cast                 |          |
| Iron                 | Fe %    | 0.400 max.      |                         |          |
| Manganese            | Mn %    | 0.400 max.      |                         |          |
| Nickel               | Ni %    | 1.800 max.      |                         |          |
| Phosphorus           | P %     | 0.020 max.      |                         |          |
| Lead                 | Pb %    | 0.400 max.      |                         |          |
| Antimony             | Sb %    | 0.050 max.      |                         |          |
| Silicon              | Si %    | 0.500 max.      |                         |          |
| Tin                  | Sn %    | 0.400 max.      | Mechanical Properties   |          |
| Cu + Ni              | Cu%+Ni% | 60.000 - 63.000 | Tensile Strength in Mpa | 450 min. |
| Zinc                 | Zn %    | Balance         | Yield Strength in Mpa   | 170 min. |
| -                    | -       | -               | Elongation in %         | 25 min.  |
| -                    | -       | -               | Reduction of Area in %  | -        |
| -                    | -       | -               | Hardness in HB          | 105 min. |
| -                    | -       | -               | Impact in Joule         | -        |

| Cross Reference Table |          |                |                              |
|-----------------------|----------|----------------|------------------------------|
| Material              | Standard | Country        | Grade Belong to the Industry |
| CC766S                | BS       | British        | Ingot and Casting            |
| CB766S                | EN       | European Union | Ingot and Casting            |
| CB766S                | CSN      | Czech Republic | Ingot and Casting            |
| CB766S                | DIN      | Germany        | Ingot and Casting            |
| CuZn37Al1-B           | AFNOR NF | France         | Ingot and Casting            |
| CuZn37Al1-B           | UNE      | Spain          | Ingot and Casting            |
| CuZn37Al1-B           | UNI      | Italy          | Ingot and 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](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**