



## Material - BS EN 1982 CC751S

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

Group - Non-Ferrous Copper Alloy

Sub Group - BS 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 %    | 0.100 max.      | As-Cast  |  |
| Iron                 | Fe %    | 0.250 - 0.500   |  |  |
| Manganese            | Mn %    | 0.150 max.      |  |  |
| Nickel               | Ni %    | 0.800 max.      |  |  |
| Lead                 | Pb %    | 0.800 - 2.200   |  |  |
| Antimony             | Sb %    | 0.050 max.      |  |  |
| Silicon              | Si %    | 0.650 - 1.100   |  |  |
| Tin                  | Sn %    | 0.800 max.      |  |  |
| Cu + Ni              | Cu%+Ni% | 63.500 - 66.000 |  |  |
| Zinc                 | Zn %    | Balance         |  |  |
| -                    | -       | -               | <b>Mechanical Properties</b><br>Tensile Strength in Mpa      470 min.<br>Yield Strength in Mpa      310 min.<br>Elongation in %      3 min.<br>Reduction of Area in %      -<br>Hardness in HB      150 min.<br>Impact in Joule      - |  |
| -                    | -       | -               |  |  |
| -                    | -       | -               |  |  |
| -                    | -       | -               |  |  |
| -                    | -       | -               |  |  |
| -                    | -       | -               |  |  |
| -                    | -       | -               |  |  |

| Cross Reference Table |          |                |                              |
|-----------------------|----------|----------------|------------------------------|
| Material              | Standard | Country        | Grade Belong to the Industry |
| CB751S                | BS       | British        | Ingot and Casting            |
| CC751S                | EN       | European Union | Ingot and Casting            |
| CC751S                | DIN      | Germany        | Ingot and Casting            |
| CC751S                | UNI      | Italy          | Ingot and Casting            |
| CC751S                | ONORM    | Australia      | Ingot and Casting            |
| CC751S                | AFNOR NF | France         | Ingot and Casting            |
| CC751S                | CSN      | Czech Republic | 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)**

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