



## Material - UNE EN 1982 CuSn10-C

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

Group - Non-Ferrous Copper Alloy

Sub Group - UNE 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 %    | 0.010 max.      | As-Cast   |  |
| Iron                 | Fe %    | 0.200 max.      |   |  |
| Manganese            | Mn %    | 0.100 max.      |   |  |
| Nickel               | Ni %    | 2.000 max.      |   |  |
| Phosphorus           | P %     | 0.200 max.      |   |  |
| Lead                 | Pb %    | 1.000 max.      |   |  |
| Sulphur              | S %     | 0.050 max.      |   |  |
| Antimony             | Sb %    | 0.200 max.      |   |  |
| Silicon              | Si %    | 0.020 max.      |   |  |
| Tin                  | Sn %    | 9.000 - 11.000  |   |  |
| Zinc                 | Zn %    | 0.500 max.      | <b>Mechanical Properties</b><br>Tensile Strength in Mpa      250 - 326<br>Yield Strength in Mpa      130 - 170<br>Elongation in %      10 - 45.6<br>Reduction of Area in %      -<br>Hardness in HB      70 - 80<br>Impact in Joule      48.4 - 49.9 @ RT |  |
| Cu + Ni              | Cu%+Ni% | 88.000 - 90.000 |   |  |
| -                    | -       | -               |   |  |
| -                    | -       | -               |   |  |
| -                    | -       | -               |   |  |
| -                    | -       | -               |   |  |
| -                    | -       | -               |   |  |

| Cross Reference Table |          |                |                              |
|-----------------------|----------|----------------|------------------------------|
| Material              | Standard | Country        | Grade Belong to the Industry |
| CB480K                | BS       | British        | Ingot and Casting            |
| CC480K                | ONORM    | Australia      | Ingot and Casting            |
| CC480K                | EN       | European Union | Ingot and Casting            |
| CC480K                | DIN      | Germany        | Ingot and Casting            |
| CC480K                | BDS      | Bulgaria       | Ingot and Casting            |
| CuSn10-C              | AFNOR NF | France         | Ingot and Casting            |
| CuSn10-C              | 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)**

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