

## Material: BDS EN 1982 CB482K

### 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 %    | 0.010 max.      | As-Cast                                                                                                                                                                                                   |  |
| Iron                 | Fe %    | 0.200 max.      |                                                                                                                                                                                                           |  |
| Manganese            | Mn %    | 0.200 max.      |                                                                                                                                                                                                           |  |
| Nickel               | Ni %    | 2.000 max.      |                                                                                                                                                                                                           |  |
| Phosphorus           | P %     | 0.400 max.      |                                                                                                                                                                                                           |  |
| Lead                 | Pb %    | 0.700 - 2.500   |                                                                                                                                                                                                           |  |
| Sulphur              | S %     | 0.080 max.      |                                                                                                                                                                                                           |  |
| Antimony             | Sb %    | 0.200 max.      |                                                                                                                                                                                                           |  |
| Silicon              | Si %    | 0.010 max.      |                                                                                                                                                                                                           |  |
| Tin                  | Sn %    | 10.500 - 12.500 |                                                                                                                                                                                                           |  |
| Zinc                 | Zn %    | 2.000 max.      | <b>Mechanical Properties</b><br>Tensile Strength in Mpa 240 - 280<br>Yield Strength in Mpa 130 - 150<br>Elongation in % 5 min.<br>Reduction of Area in % -<br>Hardness in HB 80 - 90<br>Impact in Joule - |  |
| Cu + Ni              | Cu%+Ni% | 83.500 - 87.000 |                                                                                                                                                                                                           |  |
| -                    | -       | -               |                                                                                                                                                                                                           |  |
| -                    | -       | -               |                                                                                                                                                                                                           |  |
| -                    | -       | -               |                                                                                                                                                                                                           |  |
| -                    | -       | -               |                                                                                                                                                                                                           |  |

| Cross Reference Table |          |           |                              |
|-----------------------|----------|-----------|------------------------------|
| Material              | Standard | Country   | Grade Belong to the Industry |
| CC482K                | BS       | British   | Ingot and Casting            |
| CB482K                | AFNOR NF | France    | Ingot and Casting            |
| CB482K                | ONORM    | Australia | Ingot and Casting            |
| CB482K                | UNI      | Italy     | Ingot and Casting            |
| CuSn11Pb2-B           | DIN      | Germany   | Ingot and Casting            |
| CuSn11Pb2-B           | UNE      | Spain     | Ingot and Casting            |
| CuSn11Pb2-B           | MSZ      | Hungary   | Ingot and Casting            |

**Disclaimer:** All information displayed in our data sheets are for reference purpose only and are sole property of their respective owners. Information and or material are used for educational purposes only. Data at actual may vary at actual and case to case basis. ICAST Alloys LLP does not guarantee validity of these parameters. Warranties and liabilities are exclusive to our terms and conditions of business.

Customer Care: +91-99090 45075 Email: [info@icastllp.com](mailto:info@icastllp.com)