

# Material: AFNOR NF EN 1982 CC483K

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

**Group:** Non-Ferrous Copper Alloy

**Sub Group:** AFNOR NF 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 %     | 0.600 max.      |                         |           |
| Lead                 | Pb %    | 0.700 max.      |                         |           |
| Sulphur              | S %     | 0.050 max.      |                         |           |
| Antimony             | Sb %    | 0.150 max.      |                         |           |
| Silicon              | Si %    | 0.010 max.      |                         |           |
| Tin                  | Sn %    | 11.000 - 13.000 | Mechanical Properties   |           |
| Zinc                 | Zn %    | 0.500 max.      | Tensile Strength in Mpa | 260 - 300 |
| Cu + Ni              | Cu%+Ni% | 85.000 - 88.500 | Yield Strength in Mpa   | 140 - 150 |
| -                    | -       | -               | Elongation in %         | 5 - 7     |
| -                    | -       | -               | Reduction of Area in %  | -         |
| -                    | -       | -               | Hardness in HB          | 80 - 90   |
| -                    | -       | -               | Impact in Joule         | -         |

| Cross Reference Table |          |           |                              |
|-----------------------|----------|-----------|------------------------------|
| Material              | Standard | Country   | Grade Belong to the Industry |
| CB483K                | BS       | British   | Ingot and Casting            |
| CC483K                | ONORM    | Australia | Ingot and Casting            |
| CC483K                | BDS      | Bulgaria  | Ingot and Casting            |
| CC483K                | UNI      | Italy     | Ingot and Casting            |
| CuSn12-C              | DIN      | Germany   | Ingot and Casting            |
| CuSn12-C              | UNE      | Spain     | Ingot and Casting            |
| CuSn12-C              | MSZ      | Hungary   | Ingot and Casting            |

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