

# Material: ONORM EN 1982 CB484K

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

**Group:** Non-Ferrous Copper Alloy

**Sub Group:** ONORM 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 %    | 0.150 max.      |                                                                                                                                                                                                           |  |
| Manganese            | Mn %    | 0.100 max.      |                                                                                                                                                                                                           |  |
| Nickel               | Ni %    | 1.500 - 2.400   |                                                                                                                                                                                                           |  |
| Phosphorus           | P %     | 0.050 max.      |                                                                                                                                                                                                           |  |
| Lead                 | Pb %    | 0.200 max.      |                                                                                                                                                                                                           |  |
| Sulphur              | S %     | 0.040 max.      |                                                                                                                                                                                                           |  |
| Antimony             | Sb %    | 0.050 max.      |                                                                                                                                                                                                           |  |
| Silicon              | Si %    | 0.010 max.      |                                                                                                                                                                                                           |  |
| Tin                  | Sn %    | 11.300 - 13.000 |                                                                                                                                                                                                           |  |
| Zinc                 | Zn %    | 0.300 max.      | <b>Mechanical Properties</b><br>Tensile Strength in Mpa 280 - 300<br>Yield Strength in Mpa 160 - 180<br>Elongation in % 8 - 12<br>Reduction of Area in % -<br>Hardness in HB 85 - 95<br>Impact in Joule - |  |
| Cu + Ni              | Cu%+Ni% | 84.000 - 87.000 |                                                                                                                                                                                                           |  |
| -                    | -       | -               |                                                                                                                                                                                                           |  |
| -                    | -       | -               |                                                                                                                                                                                                           |  |
| -                    | -       | -               |                                                                                                                                                                                                           |  |
| -                    | -       | -               |                                                                                                                                                                                                           |  |

| Cross Reference Table |          |           |                              |
|-----------------------|----------|-----------|------------------------------|
| Material              | Standard | Country   | Grade Belong to the Industry |
| CC484K                | BS       | British   | Ingot and Casting            |
| CuSn12Ni2-B           | ONORM    | Australia | Ingot and Casting            |
| CB484K                | UNI      | Italy     | Ingot and Casting            |
| CuSn12Ni2-B           | UNI      | Italy     | Ingot and Casting            |
| CB484K                | DIN      | Germany   | Ingot and Casting            |
| CuSn12Ni2-B           | DIN      | Germany   | Ingot and Casting            |
| CuSn12Ni2-B           | UNE      | Spain     | Ingot and Casting            |

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