



Material - DIN EN 1982 CC491K

Standard Specification for Copper and Copper Alloys - Ingots and Castings

Group - Non-Ferrous Copper Alloy

Sub Group - DIN 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 % | 0.300 max. | | |
| Nickel | Ni % | 2.000 max. | | |
| Phosphorus | P % | 0.100 max. | | |
| Lead | Pb % | 4.000 - 6.000 | | |
| Sulphur | S % | 0.100 max. | | |
| Antimony | Sb % | 0.250 max. | | |
| Silicon | Si % | 0.010 max. | | |
| Tin | Sn % | 4.000 - 6.000 | | |
| Zinc | Zn % | 4.000 - 6.000 | | |
| Cu + Ni | Cu%+Ni% | 83.000 - 87.000 | Mechanical Properties | |
| - | - | - | Tensile Strength in Mpa | 200 - 250 |
| - | - | - | Yield Strength in Mpa | 90 - 110 |
| - | - | - | Elongation in % | 6 - 13 |
| - | - | - | Reduction of Area in % | - |
| - | - | - | Hardness in HB | 60 - 65 |
| - | - | - | Impact in Joule | - |

| Cross Reference Table | | | |
|-----------------------|----------|---------|------------------------------|
| Material | Standard | Country | Grade Belong to the Industry |
| CB491K | BS | British | Ingot and Casting |
| CuSn5Zn5Pb5-C | DIN | Germany | Ingot and Casting |
| CC491K | MSZ | Hungary | Ingot and Casting |
| CuSn5Zn5Pb5-C | MSZ | Hungary | Ingot and Casting |
| CC491K | AFNOR NF | France | Ingot and Casting |
| CuSn5Zn5Pb5-C | AFNOR NF | France | Ingot and Casting |
| CC491K | UNE | Spain | 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

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