

# Material: SFS EN 1982 CC766S

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

**Group:** Non-Ferrous Copper Alloy

**Sub Group:** SFS 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 |         |                 |
|----------------------|---------|-----------------|
| Aluminium            | Al %    | 0.300 - 1.800   |
| Iron                 | Fe %    | 0.500 max.      |
| Manganese            | Mn %    | 0.500 max.      |
| Nickel               | Ni %    | 2.000 max.      |
| Lead                 | Pb %    | 0.500 max.      |
| Antimony             | Sb %    | 0.100 max.      |
| Silicon              | Si %    | 0.600 max.      |
| Tin                  | Sn %    | 0.500 max.      |
| Cu + Ni              | Cu%+Ni% | 60.000 - 64.000 |
| Zinc                 | Zn %    | Balance         |
| -                    | -       | -               |
| -                    | -       | -               |
| -                    | -       | -               |
| -                    | -       | -               |
| -                    | -       | -               |

| Heat Treatment |
|----------------|
| As-Cast        |

| Mechanical Properties   |          |
|-------------------------|----------|
| Tensile Strength in Mpa | 450 min. |
| Yield Strength in Mpa   | 170 min. |
| Elongation in %         | 25 min.  |
| Reduction of Area in %  | -        |
| Hardness in HB          | 105 min. |
| Impact in Joule         | -        |

| Cross Reference Table |          |                |                              |
|-----------------------|----------|----------------|------------------------------|
| Material              | Standard | Country        | Grade Belong to the Industry |
| CB766S                | BS       | British        | Ingot and Casting            |
| CC766S                | AFNOR NF | France         | Ingot and Casting            |
| CC766S                | BDS      | Bulgaria       | Ingot and Casting            |
| CC766S                | CSN      | Czech Republic | Ingot and Casting            |
| CuZn37Al1-C           | ONORM    | Australia      | Ingot and Casting            |
| CuZn37Al1-C           | MSZ      | Hungary        | Ingot and Casting            |
| CuZn37Al1-C           | UNI      | Italy          | Ingot and Casting            |

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