

# Material: MSZ EN 1982 CuSn15As-C

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

**Group:** Non-Ferrous Copper Alloy

**Sub Group:** MSZ 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                 |          |
| Arsenic              | As % | 0.050 - 0.150   |                         |          |
| Iron                 | Fe % | 0.150 max.      |                         |          |
| Manganese            | Mn % | 0.100 max.      |                         |          |
| Nickel               | Ni % | 0.100 max.      |                         |          |
| Lead                 | Pb % | 0.500 max.      |                         |          |
| Silicon              | Si % | 0.020 max.      |                         |          |
| Tin                  | Sn % | 0.300 max.      |                         |          |
| Copper               | Cu % | 83.000 - 88.000 |                         |          |
| Zinc                 | Zn % | Balance         | Mechanical Properties   |          |
| -                    | -    | -               | Tensile Strength in Mpa | 160 min. |
| -                    | -    | -               | Yield Strength in Mpa   | 70 min.  |
| -                    | -    | -               | Elongation in %         | 20 min.  |
| -                    | -    | -               | Reduction of Area in %  | -        |
| -                    | -    | -               | Hardness in HB          | 45 min.  |
| -                    | -    | -               | Impact in Joule         | -        |

| Cross Reference Table |          |                |                              |
|-----------------------|----------|----------------|------------------------------|
| Material              | Standard | Country        | Grade Belong to the Industry |
| CB760S                | BS       | British        | Ingot and Casting            |
| CC760S                | ONORM    | Australia      | Ingot and Casting            |
| CC760S                | BDS      | Bulgaria       | Ingot and Casting            |
| CC760S                | CSN      | Czech Republic | Ingot and Casting            |
| CC760S                | EN       | European Union | Ingot and Casting            |
| CuSn15As-C            | UNI      | Italy          | Ingot and Casting            |
| CuSn15As-C            | AFNOR NF | France         | Ingot and Casting            |

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