

# Material: MSZ EN 1982 CuZn25Al5Mn4Fe3-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 %    | 3.000 - 7.000   | As-Cast                                                                                                                                                                                                    |  |
| Iron                 | Fe %    | 1.500 - 4.000   |                                                                                                                                                                                                            |  |
| Manganese            | Mn %    | 2.500 - 5.000   |                                                                                                                                                                                                            |  |
| Nickel               | Ni %    | 3.000 max.      |                                                                                                                                                                                                            |  |
| Phosphorus           | P %     | 0.030 max.      |                                                                                                                                                                                                            |  |
| Lead                 | Pb %    | 0.200 max.      |                                                                                                                                                                                                            |  |
| Antimony             | Sb %    | 0.030 max.      |                                                                                                                                                                                                            |  |
| Silicon              | Si %    | 0.100 max.      |                                                                                                                                                                                                            |  |
| Tin                  | Sn %    | 0.200 max.      |                                                                                                                                                                                                            |  |
| Cu + Ni              | Cu%+Ni% | 60.000 - 67.000 |                                                                                                                                                                                                            |  |
| Zinc                 | Zn %    | Balance         | <b>Mechanical Properties</b><br>Tensile Strength in Mpa 680 - 750<br>Yield Strength in Mpa 450 - 580<br>Elongation in % 1 - 8<br>Reduction of Area in % -<br>Hardness in HB 180 - 190<br>Impact in Joule - |  |
| -                    | -       | -               |                                                                                                                                                                                                            |  |
| -                    | -       | -               |                                                                                                                                                                                                            |  |
| -                    | -       | -               |                                                                                                                                                                                                            |  |
| -                    | -       | -               |                                                                                                                                                                                                            |  |
| -                    | -       | -               |                                                                                                                                                                                                            |  |

| Cross Reference Table |          |           |                              |
|-----------------------|----------|-----------|------------------------------|
| Material              | Standard | Country   | Grade Belong to the Industry |
| CB762S                | BS       | British   | Ingot and Casting            |
| CC762S                | ONORM    | Australia | Ingot and Casting            |
| CC762S                | BDS      | Bulgaria  | Ingot and Casting            |
| CC762S                | UNI      | Italy     | Ingot and Casting            |
| CC762S                | DIN      | Germany   | Ingot and Casting            |
| CuZn25Al5Mn4Fe3-C     | UNE      | Spain     | Ingot and Casting            |
| CuZn25Al5Mn4Fe3-C     | AFNOR NF | France    | Ingot and Casting            |

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