

## Material: ISO 1338 CuSn10Zn2

### Standard Specification for Cast Copper Alloys

**Group:** Non-Ferrous Copper Alloy

**Sub Group:** ISO 1338 Cast Copper Alloys

**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 % | 0.200 max.      |                         |           |
| Manganese            | Mn % | 0.200 max.      |                         |           |
| Nickel               | Ni % | 2.000 max.      |                         |           |
| Phosphorus           | P %  | 0.030 max.      |                         |           |
| Lead                 | Pb % | 1.300 max.      |                         |           |
| Sulphur              | S %  | 0.100 max.      |                         |           |
| Antimony             | Sb % | 0.300 max.      |                         |           |
| Silicon              | Si % | 0.010 max.      |                         |           |
| Tin                  | Sn % | 9.200 - 11.000  | Mechanical Properties   |           |
| Zinc                 | Zn % | 1.000 - 3.000   | Tensile Strength in Mpa | 240 - 270 |
| Copper               | Cu % | 86.000 - 88.500 | Yield Strength in Mpa   | 120 - 140 |
| -                    | -    | -               | Elongation in %         | 7 - 12    |
| -                    | -    | -               | Reduction of Area in %  | -         |
| -                    | -    | -               | Hardness in BHN         | -         |
| -                    | -    | -               | Impact in Joule         | -         |

| Cross Reference Table |          |         |                              |
|-----------------------|----------|---------|------------------------------|
| Material              | Standard | Country | Grade Belong to the Industry |
| G1                    | BS       | British | Ingot and Casting            |
| -                     | -        | -       | -                            |
| -                     | -        | -       | -                            |
| -                     | -        | -       | -                            |
| -                     | -        | -       | -                            |
| -                     | -        | -       | -                            |
| -                     | -        | -       | -                            |

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