GRAVITY CAST PVT. LTD.
GRAVITY GROUP OF COMPANIES

# Material - ISO 1637 CuZn38Sn1

## Standard Specification for Wrought Copper and Copper Alloy Rod and Bar

**Group - Non-Ferrous Copper Alloy**

**Sub Group - ISO 1637 Wrought Copper and Copper Alloy Rod and Bar**

**Application - Intended for Valve, Pump, General Engineering, Automotive and Other Industries**

**Grade Belongs to the Industry - Rod and Bar**

| Chemical Composition | | |
|---|---|---|
| Iron | Fe % | 0.100 max. |
| Lead | Pb % | 0.200 max. |
| Tin | Sn % | 0.500 - 1.200 |
| Copper | Cu % | 59.000 - 62.000 |
| Zinc | Zn % | Balance |
| - | - | - |
| - | - | - |
| - | - | - |
| - | - | - |
| - | - | - |
| - | - | - |
| - | - | - |
| - | - | - |
| - | - | - |

| Heat Treatment |
|---|
| Normalizing or Annealing or Tempering |

| Mechanical Properties | |
|---|---|
| Tensile Strength in Mpa | 370 - 470 |
| Yield Strength in Mpa | 180 - 310 |
| Elongation in % | 13 - 30 |
| Reduction of Area in % | - |
| Hardness in HRB | 70 - 80 |
| Impact in Joule | - |

| Cross Reference Table | | | |
|---|---|---|---|
| **Material** | **Standard** | **Country** | **Grade Belong to the Industry** |
| CuZn39Sn | IS | India | Plate |
| B171 C46400 | ASTM | USA | Plate and Sheet |
| B283 C46400 | ASTM | USA | Forging |
| CZ 133 | BS | British | Rod and Section |
| SB-171 C46400 | ASME | USA | Plate and Sheet |
| SB-283 C46400 | ASME | USA | Forging |
| F467 C46400 | ASTM | USA | Nut |

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