GRAVITY CAST PVT. LTD.
GRAVITY GROUP OF COMPANIES

# Material - SAE AMS 4863 Cu-15Ni-8Sn

## Standard Specification for Copper-Nickel-Tin Alloy Casting

**Group - Non-Ferrous Copper Alloy**

**Sub Group - SAE AMS 4863 Copper-Nickel-Tin Alloy Casting**

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

**Grade Belongs to the Industry - Casting**

| Chemical Composition | | |
|---|---|---|
| Iron | Fe % | 0.500 max. |
| Magnesium | Mg % | 0.150 max. |
| Manganese | Mn % | 0.050 - 0.300 |
| Niobium | Nb % | 0.100 max. |
| Ni + Co | Ni% + Co% | 14.500 - 15.500 |
| Lead | Pb % | 0.020 max. |
| Silicon | Si % | 0.300 max. |
| Tin | Sn % | 7.500 - 8.500 |
| Zinc | Zn % | 0.500 max. |
| Copper | Cu % | Balance |
| - | - | - |
| - | - | - |
| - | - | - |
| - | - | - |
| - | - | - |

| Heat Treatment |
|---|
| As-Cast or Solution Annealing |

| Mechanical Properties | |
|---|---|
| Tensile Strength in Mpa | 779 min. |
| Yield Strength in Mpa | 662 min. |
| Elongation in % | 2 min. |
| Reduction of Area in % | - |
| Hardness in HB | 277 min. |
| Impact in Joule | - |

| Cross Reference Table | | | |
|---|---|---|---|
| **Material** | **Standard** | **Country** | **Grade Belong to the Industry** |
| C96900 | UNS | USA | Rod, Bar, Tube and Shapes |
| B505 C96900 | ASTM | USA | Casting |
| SB-505 C96900 | ASME | USA | Casting |
| - | - | - | - |
| - | - | - | - |
| - | - | - | - |
| - | - | - | - |

**Further any inquiry to discuss with Gravity Cast Pvt. Ltd. – Gravity Group of Companies team member Call on +918469160029, or email marketing@gravitycastindia.com**