# **Material:** ASTM B505 Leaded Tin Bronze UNS C92700

## Standard Specification for Copper Alloy Continuous Casting

**Group:** *Non-Ferrous Copper Alloy*
**Sub Group:** *ASTM B505 / 505M Copper Alloys for Continuous Casting*
**Application:** *Intended for Valve, Pump, General Engineering, Automotive and Other Industries Grade*
**Belongs to the Industry:** *Rod, Bar, Tube and Shapes*

| Chemical Composition | | |
|---|---|---|
| Tin | Sn % | 9.000 - 11.000 |
| Lead | Pb % | 1.000 - 2.500 |
| Zinc | Zn % | 0.700 max. |
| Ni + Cu | Ni% + Cu% | 1.000 max. |
| Iron | Fe % | 0.200 max. |
| Antimony | Sb % | 0.250 max. |
| Sulphur | S % | 0.050 max. |
| Phosphorus | P % | 1.500 max. |
| Aluminium | Al % | 0.005 max. |
| Silicon | Si % | 0.005 max. |
| Copper | Cu % | 86.000 - 89.000 |
| - | - | - |
| - | - | - |
| - | - | - |
| - | - | - |

| Heat Treatment |
|---|
| As-Cast |

| Mechanical Properties | |
|---|---|
| Tensile Strength in Mpa | 252 min. |
| Yield Strength in Mpa | 138 min. |
| Elongation in % | 8 min. |
| Reduction of Area in % | - |
| Hardness in BHN | - |
| Impact in Joule | - |

| Cross Reference Table | | | |
|---|---|---|---|
| **Material** | **Standard** | **Country** | **Grade Belong to the Industry** |
| B30 C92700 | ASTM | USA | Ingot and Casting |
| B505 C92700 | ASTM | USA | Casting |
| CA927 | SAE | USA | Casting |
| SAE 63 | SAE | USA | Casting |
| SB-505 C92700 | ASME | USA | Casting |
| C92700 | SAE | USA | Casting |
| - | - | - | - |



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