GRAVITY CAST PVT. LTD.
GRAVITY GROUP OF COMPANIES

# Material - SAE J 462 UNS C93700 Grade C

## Standard Specification for Cast Copper Alloys

**Group - Non-Ferrous Copper Alloys**

**Sub Group - SAE J 462 UNS C93700 Grade C Cast Copper Alloys**

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

**Grade Belongs to the Industry - Casting**

| Chemical Composition | | |
|---|---|---|
| Tin | Sn % | 9.000 - 11.000 |
| Lead | Pb % | 8.000 - 11.000 |
| Zinc | Zn % | 0.800 max. |
| Iron | Fe % | 0.150 max. |
| Antimony | Sb % | 0.550 max. |
| Nickel | Ni % | 1.000 max. |
| Sulphur | S % | 0.080 max. |
| Phosphorus | P % | 0.150 max. |
| Aluminium | Al % | 0.005 max. |
| Silicon | Si % | 0.005 max. |
| Copper | Cu % | 78.000 - 82.000 |
| - | - | - |
| - | - | - |
| - | - | - |
| - | - | - |

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

| Mechanical Properties | |
|---|---|
| Tensile Strength in Mpa | 275 min. |
| Yield Strength in Mpa | 170 min. |
| Elongation in % | 6 min. |
| Reduction of Area in % | - |
| Hardness in HBW | - |
| Impact in Joule | - |

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| Cross Reference Table | | | |
|---|---|---|---|
| **Material** | **Standard** | **Country** | **Grade Belong to the Industry** |
| B 505 UNS C93700 | ASTM | USA | Casting |
| B 271 UNS C93700 | ASTM | USA | Casting |
| B 584 UNS C93700 | ASTM | USA | Casting |
| 1982 CuSn10Pb10-B | EN | European Union | Ingots and Casting |
| 1982 CB495K | EN | European Union | Ingots and Casting |
| 1982 CuSn10Pb10-C | EN | European Union | Ingots and Casting |
| 1982 CC495K | EN | European Union | Ingots and 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**

All information in our data sheets and website is indicative only and is not intended to be a substitute for the full specification from which it is extracted. It is intended to provide typical values to allow comparison between metal alloy option rather than a definitive statement of mechanical performance or suitability for a particular application as these will vary with temperature, product type and product application. It is presented apart from contractual obligations and does not constitute any guarantee of properties or of processing or application possibilities in individual cases. Our warranties and liabilities are stated exclusively in our terms of business.