

## Material - ASTM B505 Lead Tin Bronze UNS C92300

### 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 |           |                 | Heat Treatment          |          |
|----------------------|-----------|-----------------|-------------------------|----------|
| Tin                  | Sn %      | 7.500 - 9.000   | As-Cast                 |          |
| Lead                 | Pb %      | 0.300 - 1.000   |                         |          |
| Zinc                 | Zn %      | 2.500 - 5.000   |                         |          |
| Ni + Cu              | Ni% + Cu% | 1.000 max.      |                         |          |
| Iron                 | Fe %      | 0.250 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.      | Mechanical Properties   |          |
| Copper               | Cu %      | 85.000 - 89.000 | Tensile Strength in Mpa | 276 min. |
| -                    | -         | -               | Yield Strength in Mpa   | 131 min. |
| -                    | -         | -               | Elongation in %         | 16 min.  |
| -                    | -         | -               | Reduction of Area in %  | -        |
| -                    | -         | -               | Hardness in BHN         | -        |
| -                    | -         | -               | Impact in Joule         | -        |

| Cross Reference Table |          |         |                              |
|-----------------------|----------|---------|------------------------------|
| Material              | Standard | Country | Grade Belong to the Industry |
| B30 2B                | ASTM     | USA     | Ingot and Casting            |
| B30 C92300            | ASTM     | USA     | Ingot and Casting            |
| B271 C92300           | ASTM     | USA     | Casting                      |
| B505 C92300           | ASTM     | USA     | Casting                      |
| B584 C92300           | ASTM     | USA     | Casting                      |
| SB-505 C92300         | ASME     | USA     | Casting                      |
| CA923                 | SAE      | USA     | Ingot and Casting            |

For any further inquiries, please do not hesitate to contact us. You may visit our website at [AMTECH TECHNOCAST PVT. LTD.](http://AMTECH TECHNOCAST PVT. LTD.), call us at [+91 9879817994](tel:+919879817994), or email us at [manish@amtechtechnocast.com](mailto:manish@amtechtechnocast.com)

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