

# Material: ASTM B505 Special Alloy UNS C99500

## Standard Specification for Copper Alloy Continuous Castings

**Group:** Non-Ferrous Copper Alloy

**Sub Group:** ASTM B505 / 505M Copper Alloys for Continuous Castings

**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  |  |
|----------------------|-----------|---------------|---|--|
| Lead                 | Pb %      | 0.250 max.    | As-Cast   |  |
| Zinc                 | Zn %      | 0.500 - 2.000 |   |  |
| Ni + Cu              | Ni% + Cu% | 3.500 - 5.500 |   |  |
| Iron                 | Fe %      | 3.000 - 5.000 |   |  |
| Manganese            | Mn %      | 0.500 max.    |   |  |
| Aluminium            | Al %      | 0.500 - 2.000 |   |  |
| Copper               | Cu %      | Balance       |   |  |
| -                    | -         | -             |   |  |
| -                    | -         | -             | <b>Mechanical Properties</b><br>Tensile Strength in Mpa 483 min.<br>Yield Strength in Mpa 276 min.<br>Elongation in % 12 min.<br>Reduction of Area in % -<br>Hardness in BHN -<br>Impact in Joule - |  |
| -                    | -         | -             |   |  |
| -                    | -         | -             |   |  |
| -                    | -         | -             |   |  |
| -                    | -         | -             |   |  |
| -                    | -         | -             |   |  |
| -                    | -         | -             |   |  |
| -                    | -         | -             |   |  |

| Cross Reference Table |          |         |                              |
|-----------------------|----------|---------|------------------------------|
| Material              | Standard | Country | Grade Belong to the Industry |
| B30 C99500            | ASTM     | USA     | Ingot and Casting            |
| B505 C99500           | ASTM     | USA     | Casting                      |
| B763 C 99500          | ASTM     | USA     | Casting                      |
| SB-505 C99500         | ASME     | USA     | Casting                      |
| -                     | -        | -       | -                            |
| -                     | -        | -       | -                            |
| -                     | -        | -       | -                            |

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Customer Care: +91-99090 45075 Email: [info@icastllp.com](mailto:info@icastllp.com)