

## Material - ASTM B505 Leaded Semi-Red Brass UNS C84200

### 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          |          |
|----------------------|-----------|-----------------|-------------------------|----------|
| Tin                  | Sn %      | 4.000 - 6.000   | As-Cast                 |          |
| Lead                 | Pb %      | 2.000 - 3.000   |                         |          |
| Zinc                 | Zn %      | 10.000 - 16.000 |                         |          |
| Ni + Cu              | Ni% + Cu% | 0.800 max.      |                         |          |
| Iron                 | Fe %      | 0.400 max.      |                         |          |
| Antimony             | Sb %      | 0.250 max.      |                         |          |
| Sulphur              | S %       | 0.080 max.      |                         |          |
| Phosphorus           | P %       | 1.500 max.      |                         |          |
| Aluminium            | Al %      | 0.005 max.      | Mechanical Properties   |          |
| Silicon              | Si %      | 0.005 max.      | Tensile Strength in Mpa | 221 min. |
| Copper               | Cu %      | 78.000 - 82.000 | Yield Strength in Mpa   | 110 min. |
| -                    | -         | -               | Elongation in %         | 13 min.  |
| -                    | -         | -               | Reduction of Area in %  | -        |
| -                    | -         | -               | Hardness in BHN         | -        |
| -                    | -         | -               | Impact in Joule         | -        |

| Cross Reference Table |          |         |                              |
|-----------------------|----------|---------|------------------------------|
| Material              | Standard | Country | Grade Belong to the Industry |
| B30 C84200            | ASTM     | USA     | Casting                      |
| B505 C84200           | ASTM     | USA     | Casting                      |
| SB-505 C84200         | ASME     | USA     | Casting                      |
| C83800                | UNS      | USA     | 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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