

## Material - ASTM B198-13C

### Standard Specification for Copper Alloy Sand Casting for General Applications

Group - Non-Ferrous Copper Alloy

Sub Group - ASTM B584 Copper Alloy Sand Casting for General Applications

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

Grade Belongs to the Industry - Casting

| Chemical Composition |      |               | Heat Treatment               |          |
|----------------------|------|---------------|------------------------------|----------|
| Iron                 | Fe % | 0.200 max.    | As-Cast                      |          |
| Manganese            | Mn % | 0.250 max.    |                              |          |
| Lead                 | Pb % | 0.090 max.    |                              |          |
| Silicon              | Si % | 3.500 - 5.500 |                              |          |
| Zinc                 | Zn % | 4.000 - 7.000 |                              |          |
| Copper               | Cu % | 88.000 min.   |                              |          |
| -                    | -    | -             | <b>Mechanical Properties</b> |          |
| -                    | -    | -             |                              |          |
| -                    | -    | -             |                              |          |
| -                    | -    | -             |                              |          |
| -                    | -    | -             |                              |          |
| -                    | -    | -             |                              |          |
| -                    | -    | -             |                              |          |
| -                    | -    | -             |                              |          |
| -                    | -    | -             |                              |          |
| -                    | -    | -             |                              |          |
|                      |      |               | Tensile Strength in Mpa      | 414 min. |
|                      |      |               | Yield Strength in Mpa        | 207 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 |
| C87600                | UNS      | USA     | Rod, Bar, Tube and Shapes    |
| B271 C87600           | ASTM     | USA     | Casting                      |
| B30 C87600            | ASTM     | USA     | Ingot and Casting            |
| B584 C87600           | ASTM     | USA     | Casting                      |
| SB-584 C87600         | ASME     | 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)

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.