

## Material - ASTM B271 C86700

### Standard Specification for Copper-Base Alloy Centrifugal Casting

Group - Non-Ferrous Copper Alloy

Sub Group - ASTM B271 Copper-Base Alloy Centrifugal Casting

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

Grade Belongs to the Industry - Casting

| Chemical Composition |           |                 | Heat Treatment          |          |
|----------------------|-----------|-----------------|-------------------------|----------|
| Aluminium            | Al %      | 1.000 - 3.000   | As-Cast                 |          |
| Iron                 | Fe %      | 1.000 - 3.000   |                         |          |
| Manganese            | Mn %      | 0.100 - 3.500   |                         |          |
| Ni + Co              | Ni% + Co% | 1.000 max.      |                         |          |
| Lead                 | Pb %      | 0.500 - 1.500   |                         |          |
| Tin                  | Sn %      | 1.500 max.      |                         |          |
| Zinc                 | Zn %      | 30.000 - 38.000 |                         |          |
| Copper               | Cu %      | 55.000 - 60.000 |                         |          |
| -                    | -         | -               | Mechanical Properties   |          |
| -                    | -         | -               | Tensile Strength in Mpa | 552 min. |
| -                    | -         | -               | Yield Strength in Mpa   | 221 min. |
| -                    | -         | -               | Elongation in %         | 15 min.  |
| -                    | -         | -               | Reduction of Area in %  | -        |
| -                    | -         | -               | Hardness in BHN         | -        |
| -                    | -         | -               | Impact in Joule         | -        |

| Cross Reference Table |          |         |                              |
|-----------------------|----------|---------|------------------------------|
| Material              | Standard | Country | Grade Belong to the Industry |
| C86700                | UNS      | USA     | Rod, Bar, Tube and Shapes    |
| B132-B                | ASTM     | USA     | Casting                      |
| B30 C86700            | ASTM     | USA     | Ingot and Casting            |
| B584 C86700           | ASTM     | USA     | Casting                      |
| SB-584 C86700         | 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.