

## Material - ASTM B271 C95410

### 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 %      | 10.000 - 11.500 | As-Cast or Solution Annealing or Annealing                                                                                                                                                                  |  |
| Iron                 | Fe %      | 3.000 - 5.000   |                                                                                                                                                                                                             |  |
| Manganese            | Mn %      | 0.500 max.      |                                                                                                                                                                                                             |  |
| Ni + Co              | Ni% + Co% | 1.500 - 2.500   |                                                                                                                                                                                                             |  |
| Copper               | Cu %      | 83.000 min.     |                                                                                                                                                                                                             |  |
| -                    | -         | -               |                                                                                                                                                                                                             |  |
| -                    | -         | -               | <b>Mechanical Properties</b><br>Tensile Strength in Mpa 515 - 620<br>Yield Strength in Mpa 205 - 310<br>Elongation in % 6 - 12<br>Reduction of Area in % -<br>Hardness in HB 150 - 190<br>Impact in Joule - |  |
| -                    | -         | -               |                                                                                                                                                                                                             |  |
| -                    | -         | -               |                                                                                                                                                                                                             |  |
| -                    | -         | -               |                                                                                                                                                                                                             |  |
| -                    | -         | -               |                                                                                                                                                                                                             |  |
| -                    | -         | -               |                                                                                                                                                                                                             |  |
| -                    | -         | -               |                                                                                                                                                                                                             |  |
| -                    | -         | -               |                                                                                                                                                                                                             |  |
| -                    | -         | -               |                                                                                                                                                                                                             |  |

| Cross Reference Table |          |         |                              |
|-----------------------|----------|---------|------------------------------|
| Material              | Standard | Country | Grade Belong to the Industry |
| C95410                | UNS      | USA     | Rod, Bar, Tube and Shapes    |
| B148 C95410           | ASTM     | USA     | Casting                      |
| B30 C95410            | ASTM     | USA     | Ingot and Casting            |
| B505 C95410           | ASTM     | USA     | Casting                      |
| SB-148 C95410         | ASME     | USA     | Casting                      |
| SB-505 C95410         | ASME     | USA     | Casting                      |
| CACIn702              | KS       | Korea   | 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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