

## Material - ASTM B148 Aluminum Bronze UNS C95400

### Standard Specification for Alumium - Bronze Sand Castings

Group - Non-Ferrous Alumium Alloy

Sub Group - ASTM B148 Alumium - Bronze Sand Castings

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

Grade Belongs to the Industry - Casting

| Chemical Composition |           |                 | Heat Treatment                                                                                                                                                                                             |  |
|----------------------|-----------|-----------------|------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|--|
| Ni + Cu              | Ni% + Cu% | 1.500 max.      | As-Cast or Solution Annealing or Normalizing                                                                                                                                                               |  |
| Manganese            | Mn %      | 0.500 max.      |                                                                                                                                                                                                            |  |
| Iron                 | Fe %      | 3.000 - 5.000   |                                                                                                                                                                                                            |  |
| Aluminium            | Al %      | 10.000 - 11.500 |                                                                                                                                                                                                            |  |
| Copper               | Cu %      | 83.000 min.     |                                                                                                                                                                                                            |  |
| -                    | -         | -               | <b>Mechanical Properties</b><br>Tensile Strength in Mpa 515 min.<br>Yield Strength in Mpa 205 min.<br>Elongation in % 12 min.<br>Reduction of Area in % -<br>Hardness in BHN 150 min.<br>Impact in Joule - |  |
| -                    | -         | -               |                                                                                                                                                                                                            |  |
| -                    | -         | -               |                                                                                                                                                                                                            |  |
| -                    | -         | -               |                                                                                                                                                                                                            |  |
| -                    | -         | -               |                                                                                                                                                                                                            |  |
| -                    | -         | -               |                                                                                                                                                                                                            |  |
| -                    | -         | -               |                                                                                                                                                                                                            |  |
| -                    | -         | -               |                                                                                                                                                                                                            |  |
| -                    | -         | -               |                                                                                                                                                                                                            |  |
| -                    | -         | -               |                                                                                                                                                                                                            |  |

| Cross Reference Table |          |           |                              |
|-----------------------|----------|-----------|------------------------------|
| Material              | Standard | Country   | Grade Belong to the Industry |
| B66 C95400            | ASTM     | USA       | Casting                      |
| B271 C95400           | ASTM     | USA       | Casting                      |
| SB-148 C95400         | ASME     | USA       | Casting                      |
| SB-148 Grade C        | ASME     | USA       | Casting                      |
| CA954                 | SAE      | USA       | Casting                      |
| C95400                | SAE      | USA       | Casting                      |
| C95400                | AS       | Australia | 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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