



## Material - ASTM B66 C95400

### Standard Specification for Bronze Sand Casting

Group - Non-Ferrous Copper Alloy

Sub Group - ASTM B66 Bronze Sand 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 max.      |                                            |          |
| Copper               | Cu %      | 83.000 min.     |                                            |          |
| -                    | -         | -               |                                            |          |
| -                    | -         | -               |                                            |          |
| -                    | -         | -               |                                            |          |
| -                    | -         | -               |                                            |          |
| -                    | -         | -               |                                            |          |
|                      |           |                 | Mechanical Properties                      |          |
|                      |           |                 | Tensile Strength in Mpa                    | 515 min. |
|                      |           |                 | Yield Strength in Mpa                      | 205 min. |
|                      |           |                 | Elongation in %                            | 12 min.  |
|                      |           |                 | Reduction of Area in %                     | -        |
|                      |           |                 | Hardness in HB                             | 150 min. |
|                      |           |                 | Impact in Joule                            | -        |

| Cross Reference Table |          |           |                              |
|-----------------------|----------|-----------|------------------------------|
| Material              | Standard | Country   | Grade Belong to the Industry |
| C95400                | UNS      | USA       | Rod, Bar, Tube and Shapes    |
| B148 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            |

**Further any inquiry to discuss with Gravity Cast Pvt. Ltd. – Gravity Group of Companies team member Call on +918469160029, or email [marketing@gravitycastindia.com](mailto:marketing@gravitycastindia.com)**

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