

## Material: ASTM B148 C95400

### Standard Specification for Aluminum-Bronze Sand Casting

**Group:** Non-Ferrous Copper Alloy

**Sub Group:** ASTM B148 Aluminum-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 - 620 |
| -                    | -         | -               | Yield Strength in Mpa                      | 205 - 310 |
| -                    | -         | -               | Elongation in %                            | 6 - 12    |
| -                    | -         | -               | Reduction of Area in %                     | -         |
| -                    | -         | -               | Hardness in HB                             | 150 - 190 |
| -                    | -         | -               | Impact in Joule                            | -         |

| Cross Reference Table |          |           |                              |
|-----------------------|----------|-----------|------------------------------|
| Material              | Standard | Country   | Grade Belong to the Industry |
| C95400                | UNS      | USA       | Rod, Bar, Tube and Shapes    |
| B66 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            |

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