

## Material - ASTM B150 UNS C62300

Standard Specification for Aluminium Bronze Rod, Bar and Shapes

Group - Non-Ferrous Aluminium Alloy

Sub Group - ASTM B150 Aluminium Bronze Rod, Bar and Shapes

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

Grade Belongs to the Industry - Rod, Bar and Shape

| Chemical Composition |           |                | Heat Treatment                                                                                                                                                                                      |  |
|----------------------|-----------|----------------|-----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|--|
| Tin                  | Sn %      | 0.600 max.     | As Drawn or Stress Relieving or Hot Rolled                                                                                                                                                          |  |
| Silicon              | Si %      | 0.250 max.     |                                                                                                                                                                                                     |  |
| Manganese            | Mn %      | 0.500 max.     |                                                                                                                                                                                                     |  |
| Ni + Cu              | Ni% + Cu% | 1.000 max.     |                                                                                                                                                                                                     |  |
| Iron                 | Fe %      | 2.000 - 4.000  |                                                                                                                                                                                                     |  |
| Aluminium            | Al %      | 8.500 - 10.000 |                                                                                                                                                                                                     |  |
| Copper               | Cu %      | Balance        |                                                                                                                                                                                                     |  |
| -                    | -         | -              | <b>Mechanical Properties</b><br>Tensile Strength in Mpa 515 min.<br>Yield Strength in Mpa 205 min.<br>Elongation in % 20 min.<br>Reduction of Area in % -<br>Hardness in BHN -<br>Impact in Joule - |  |
| -                    | -         | -              |                                                                                                                                                                                                     |  |
| -                    | -         | -              |                                                                                                                                                                                                     |  |
| -                    | -         | -              |                                                                                                                                                                                                     |  |
| -                    | -         | -              |                                                                                                                                                                                                     |  |
| -                    | -         | -              |                                                                                                                                                                                                     |  |
| -                    | -         | -              |                                                                                                                                                                                                     |  |
| -                    | -         | -              |                                                                                                                                                                                                     |  |

| Cross Reference Table |          |         |                              |
|-----------------------|----------|---------|------------------------------|
| Material              | Standard | Country | Grade Belong to the Industry |
| C62300                | ASTM     | USA     | Rod, Bar and Shapes          |
| B150 C62300           | ASTM     | USA     | Rod, Bar and Shapes          |
| SB-150 C62300         | ASME     | USA     | Rod, Bar and Shapes          |
| SB-283 C62300         | ASME     | USA     | Forging                      |
| 4635                  | SAE      | USA     | Bars, Rods and Forgings      |
| CA623                 | SAE      | USA     | Casting                      |
| 87Cu-9Al-3Fe          | SAE      | USA     | Bars, Rods and Forgings      |

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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