

## Material - ASTM B 124 C48500

### Standard Specification for Naval Brass Rod, Bar and Shapes

Group - Non Ferrous Copper Alloys

Sub Group - ASTM B 124 C48500 Naval Brass 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                                                                                                                                                                                            |  |
|----------------------|------|-----------------|-----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|--|
| Iron                 | Fe % | 0.100 max.      | As Raw or Solution Heat Treated                                                                                                                                                                           |  |
| Lead                 | Pb % | 1.300 - 2.200   |                                                                                                                                                                                                           |  |
| Tin                  | Sn % | 0.500 - 1.000   |                                                                                                                                                                                                           |  |
| Copper               | Cu % | 59.000 - 62.000 |                                                                                                                                                                                                           |  |
| Zinc                 | Zn % | Balance         |                                                                                                                                                                                                           |  |
| -                    | -    | -               | <b>Mechanical Properties</b><br>Tensile Strength in Mpa 345 min.<br>Yield Strength in Mpa 140 min.<br>Elongation in % 10 min.<br>Reduction of Area in % -<br>Hardness in HRC 60 - 90<br>Impact in Joule - |  |
| -                    | -    | -               |                                                                                                                                                                                                           |  |
| -                    | -    | -               |                                                                                                                                                                                                           |  |
| -                    | -    | -               |                                                                                                                                                                                                           |  |
| -                    | -    | -               |                                                                                                                                                                                                           |  |
| -                    | -    | -               |                                                                                                                                                                                                           |  |
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| -                    | -    | -               |                                                                                                                                                                                                           |  |
| -                    | -    | -               |                                                                                                                                                                                                           |  |
| -                    | -    | -               |                                                                                                                                                                                                           |  |

| Cross Reference Table |          |           |                              |
|-----------------------|----------|-----------|------------------------------|
| Material              | Standard | Country   | Grade Belong to the Industry |
| CuZn36Pb2Sn1          | DIN      | Germany   | Rod                          |
| B 21 C48500           | ASTM     | USA       | Rod, Bar and Shape           |
| B 283 C48500          | ASTM     | USA       | Forging                      |
| SB-283 C48500         | ASME     | USA       | Forging                      |
| 2.0371                | DIN      | Germany   | Rod                          |
| 485                   | AS       | Australia | Forging                      |
| C48500                | 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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