

# Material: ASTM B150 C64210

## Standard Specification for Aluminum Bronze Rod, Bar and Shapes

**Group:** Non-Ferrous Copper Alloy

**Sub Group:** ASTM B150 Aluminum 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                                                                                                                                                                                              |  |
|----------------------|-----------|---------------|-------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|--|
| Aluminium            | Al %      | 6.300 - 7.000 | As Drawn or Stress Relieving or Hot Rolled                                                                                                                                                                  |  |
| Arsenic              | As %      | 0.090 max.    |                                                                                                                                                                                                             |  |
| Iron                 | Fe %      | 0.300 max.    |                                                                                                                                                                                                             |  |
| Manganese            | Mn %      | 0.100 max.    |                                                                                                                                                                                                             |  |
| Ni + Co              | Ni% + Co% | 0.250 max.    |                                                                                                                                                                                                             |  |
| Lead                 | Pb %      | 0.050 max.    |                                                                                                                                                                                                             |  |
| Silicon              | Si %      | 1.500 - 2.000 |                                                                                                                                                                                                             |  |
| Tin                  | Sn %      | 0.200 max.    |                                                                                                                                                                                                             |  |
| Zinc                 | Zn %      | 0.500 max.    |                                                                                                                                                                                                             |  |
| Cu + Ag              | Cu% + Ag% | Balance       |                                                                                                                                                                                                             |  |
| -                    | -         | -             | <b>Mechanical Properties</b><br>Tensile Strength in Mpa 482 - 620<br>Yield Strength in Mpa 170 - 310<br>Elongation in % 9 - 15<br>Reduction of Area in % -<br>Hardness in HRB 65 - 100<br>Impact in Joule - |  |
| -                    | -         | -             |                                                                                                                                                                                                             |  |
| -                    | -         | -             |                                                                                                                                                                                                             |  |
| -                    | -         | -             |                                                                                                                                                                                                             |  |
| -                    | -         | -             |                                                                                                                                                                                                             |  |
| -                    | -         | -             |                                                                                                                                                                                                             |  |
| -                    | -         | -             |                                                                                                                                                                                                             |  |

| Cross Reference Table |          |         |                              |
|-----------------------|----------|---------|------------------------------|
| Material              | Standard | Country | Grade Belong to the Industry |
| C64210                | UNS      | USA     | Rod, Bar, Tube and Shapes    |
| B124 C64210           | ASTM     | USA     | Rod, Bar and Shape           |
| B283 C64210           | ASTM     | USA     | Forging                      |
| SB-150 C64210         | ASME     | USA     | Rod, Bar and Shape           |
| SB-283 C64210         | ASME     | USA     | Forging                      |
| -                     | -        | -       | -                            |
| -                     | -        | -       | -                            |

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