

## Material: ASTM B124 UNS C64200

### Standard Specification for Copper and Copper Alloy Forging Rod, Bar and Shapes

**Group:** Non-Ferrous Copper Alloy

**Sub Group:** ASTM B124 Copper and Copper Alloy Forging 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   |  |
|----------------------|-----------|---------------|--|--|
| Lead                 | Pb %      | 0.050 max.    | Normalizing or Annealing or Tempering  |  |
| Tin                  | Sn %      | 0.200 max.    |  |  |
| Iron                 | Fe %      | 0.300 max.    |  |  |
| Ni + Cu              | Ni% + Cu% | 0.250 max.    |  |  |
| Silicon              | Si %      | 1.500 - 2.200 |  |  |
| Manganese            | Mn %      | 0.100 max.    |  |  |
| Arsenic              | As %      | 0.150 max.    |  |  |
| Aluminium            | Al %      | 6.300 - 7.600 |  |  |
| Zinc                 | Zn %      | 0.500 max.    |  |  |
| Copper               | Cu %      | Balance       |  |  |
| -                    | -         | -             | <b>Mechanical Properties</b><br>Tensile Strength in Mpa 344 min.<br>Yield Strength in Mpa -<br>Elongation in % -<br>Reduction of Area in % -<br>Hardness in BHN -<br>Impact in Joule - |  |
| -                    | -         | -             |  |  |
| -                    | -         | -             |  |  |
| -                    | -         | -             |  |  |
| -                    | -         | -             |  |  |
| -                    | -         | -             |  |  |
| -                    | -         | -             |  |  |

| Cross Reference Table |          |         |                              |
|-----------------------|----------|---------|------------------------------|
| Material              | Standard | Country | Grade Belong to the Industry |
| C63200                | UNS      | USA     | Rod, Bar and Shapes          |
| B150 C63200           | ASTM     | USA     | Rod, Bar and Shapes          |
| B171 C63200           | ASTM     | USA     | Rod, Bar and Shapes          |
| B283 C63200           | ASTM     | USA     | Forging                      |
| SB-150 C63200         | ASME     | USA     | Rod, Bar and Shape           |
| SB-171 C63200         | ASME     | USA     | Plate and Sheet              |
| SB-283 C63200         | ASME     | USA     | Forging                      |

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