

Material: ASTM B124 C63200

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

Group: Non-Ferrous Copper Alloy

Sub Group: Standard Specification for 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 | |
|----------------------|-----------|---------------|---|--|
| Aluminium | Al % | 8.700 - 9.500 | As Drawn or Hardening and Tempering | |
| Iron | Fe % | 3.500 - 4.300 | | |
| Manganese | Mn % | 1.200 - 2.000 | | |
| Ni + Co | Ni% + Co% | 4.000 - 4.800 | | |
| Lead | Pb % | 0.020 max. | | |
| Silicon | Si % | 0.100 max. | | |
| Copper | Cu % | Balance | | |
| - | - | - | Mechanical Properties Tensile Strength in Mpa 620 min. Yield Strength in Mpa 275 min. Elongation in % 15 min. Reduction of Area in % - Hardness in BHN - Impact in Joule - | |
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| Cross Reference Table | | | |
|-----------------------|----------|---------|------------------------------|
| Material | Standard | Country | Grade Belong to the Industry |
| C63200 | UNS | USA | Rod, Bar, Tube and Shapes |
| B150 C63200 | ASTM | USA | Rod, Bar and Shape |
| 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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