

Material: ASTM B124 C63000

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 | | |
|----------------------|-----------|----------------|
| Aluminium | Al % | 9.000 - 11.000 |
| Iron | Fe % | 2.000 - 4.000 |
| Manganese | Mn % | 1.500 max. |
| Ni + Co | Ni% + Co% | 4.000 - 5.500 |
| Silicon | Si % | 0.250 max. |
| Tin | Sn % | 0.200 max. |
| Zinc | Zn % | 0.300 max. |
| Copper | Cu % | Balance |
| - | - | - |
| - | - | - |
| - | - | - |
| - | - | - |
| - | - | - |
| - | - | - |
| - | - | - |

| Heat Treatment |
|--|
| As Drawn or Stress Relieving or Hot Rolled |

| Mechanical Properties | |
|-------------------------|----------|
| Tensile Strength in Mpa | 550 min. |
| Yield Strength in Mpa | 195 min. |
| Elongation in % | 10 min. |
| Reduction of Area in % | - |
| Hardness in BHN | - |
| Impact in Joule | - |

| Cross Reference Table | | | |
|-----------------------|----------|---------------|------------------------------|
| Material | Standard | Country | Grade Belong to the Industry |
| C63000 | UNS | USA | Rod, Bar, Tube and Shapes |
| B171 C63000 | ASTM | USA | Plate and Sheet |
| B283 C63000 | ASTM | USA | Forging |
| SB-150 C63000 | ASME | USA | Rod, Bar and Shape |
| SB-171 C63000 | ASME | USA | Plate and Sheet |
| CA630 | SAE | USA | Casting |
| CuAl10Ni5Fe4 | ISO | International | Rod and Bar |

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