

Material: ISO 1637 CuAl10Ni5Fe4

Standard Specification for Wrought Copper and Copper Alloy Rod and Bar

Group: Non-Ferrous Copper Alloy

Sub Group: ISO 1637 Wrought Copper and Copper Alloy Rod and Bar

Application: Intended for Valve, Pump, General Engineering, Automotive and Other Industries Grade

Belongs to the Industry: Rod and Bar

| Chemical Composition | | | Heat Treatment | |
|----------------------|-----------|-----------------|--|-----------|
| Aluminium | Al % | 9.000 - 11.000 | As Drawn or Stress Relieving or Hot Rolled | |
| 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. | | |
| Cu + Ag | Cu% + Ag% | 78.000 - 85.000 | | |
| - | - | - | Mechanical Properties | |
| - | - | - | Tensile Strength in Mpa | 620 - 725 |
| - | - | - | Yield Strength in Mpa | 310 - 415 |
| - | - | - | Elongation in % | 12 - 17 |
| - | - | - | Reduction of Area in % | - |
| - | - | - | Hardness in HRB | 100 min. |
| - | - | - | Impact in Joule | - |

| Cross Reference Table | | | |
|-----------------------|----------|---------|------------------------------|
| Material | Standard | Country | Grade Belong to the Industry |
| C63000 | UNS | USA | Rod, Bar, Tube and Shapes |
| B124 C63000 | ASTM | USA | Rod, Bar and Shape |
| 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 |

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