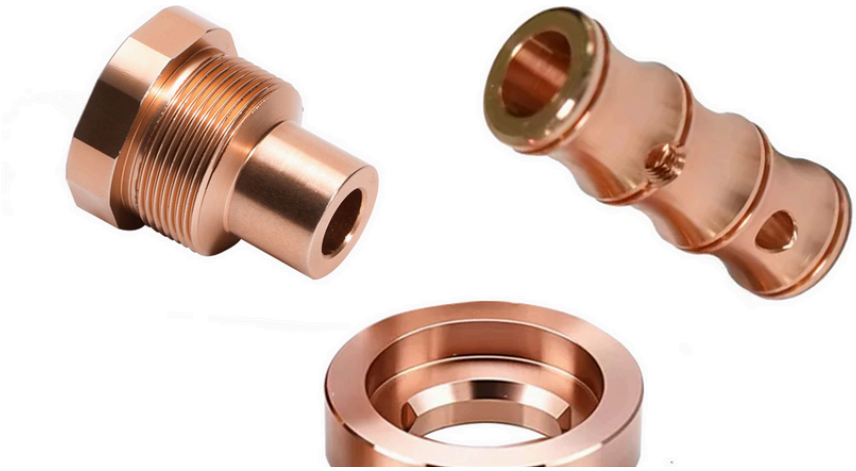
CNC Copper Alloys

SUITABLE FOR CNC MACHINING



MATERIAL NAME
CNC Copper Alloys

COLOR
Reddish Brown

PROCESS
CNC

PRODUCT DESCRIPTION

CNC Copper Alloys is a class of high-performance metal materials, with excellent electrical conductivity, thermal conductivity, corrosion resistance and good mechanical processing properties, with its excellent physical and chemical properties, plays a key role in modern industrial production, is the high precision, durability and reliability requirements of high parts manufacturing ideal choice.

TYPICAL APPLICATIONS

- Electronics industry (Connectors, terminals, heat sinks)
- Aerospace (Engine components, connectors)
- Automotive manufacturing (sensor housing, valves)
- Medical equipment (precision instruments, implants)

PRODUCT SAFETY

- Metal dust generated during CNC machining should be controlled through appropriate ventilation and protective measures to avoid inhalation.
- Use safety goggles, gloves and a dust mask during processing to prevent fine metal particles and sharp edges.

PRODUCT DELIVERY & WAREHOUSING

- **STORAGE**

  Store in a dry, ventilated environment, avoiding moisture and exposure to corrosive chemicals.
  Apply protective coatings to prevent oxidation or corrosion of metal surfaces.

- **USAGE AND HANDLING**

  Remove burrs and residual materials from the product. Use protective equipment like gloves when handling.
  Avoid using the product in extreme environments or high-load scenarios; regularly inspect for mechanical performance.

- **CHEMICAL COMPATIBILITY**

  Avoid contact with strong acids, alkalis, or corrosive solvents. Use appropriate cleaning and maintenance solutions.
  Assess risks of oxidation, corrosion, or magnetic effects based on specific application environments.

MATERIALS WE SUPPORT:

ASTM	DIN	GB	Density (g/cm^3)	Hardness	Tensile Strength, Yield(Mpa)	Fatigue Strength (Mpa)	Elongation at Break(%)
C110	E-Cu58&2.0090	T2	8.9	35~45 HB	210	80	40~50
C101	2.0040	TU1	8.9	35 HB	210	80	50

Tips: Want to explore a wider range of materials? Check out *https://www.unionfab.com/materials*