

CNC Brass Alloys

SUITABLE FOR CNC MACHINING



MATERIAL NAME

CNC Brass Alloys

COLOR

Golden Yellow

PROCESS

CNC

PRODUCT DESCRIPTION

CNC Brass Alloy is a metal material with copper (Cu) and zinc (Zn) as the main components, which is specially used for CNC Machining. Depending on the alloy composition, brass can provide good mechanical properties, corrosion resistance and excellent electrical and thermal conductivity.

TYPICAL APPLICATIONS

- Marine industry (propeller shaft, Marine parts)
- Precision machinery parts (gears, valves)
- Hydraulic components (pump, valve body)

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(%) |
|--------|------------------|---------|------------------------------|------------|------------------------------|------------------------|------------------------|
| C280 | CuZn40 | H59 | 8.5 | 80~120 HB | 250~400 | 150~250 | 20~30 |
| C280 | 2.0360 | H62 | 8.5 | 80~120 HB | 230~380 | 150~220 | 20~30 |
| C37710 | CuZn40Pb2&2.0380 | HPb59-1 | 8.5 | 100~120 HB | 350~450 | 180~230 | 20~30 |
| C371 | CuZn39Pb0.5 | HPb61-1 | 8.5 | 120~170 HB | 350~450 | 180~250 | 20~30 |
| C464 | CuZn39Sn | HSn62-1 | 8.54 | 130~170 HB | 350~500 | 180~250 | 20~40 |

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

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