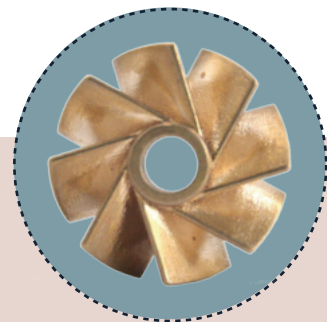
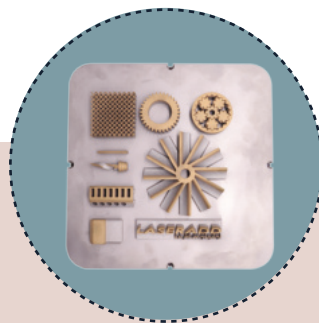


Metal 3D Printing Leader



Copper-tin alloy CuSn10

Copper-tin alloy with high elongation and medium hardness suits for a wide range of industrial applications.



Advantage

- > Resistance to cavitation in sea water
- > Excellent abrasion performance
- > Good thermal conductivity
- > Non-magnetic
- > Good corrosion resistance

Ideal Applications

- > Parts and housings for maritime applications
- > Bushings, bearings
- > heat exchangers
- > Copper shields

Powder composition / percent by mass

Sn	Mn	S	Ni	Zn	Si	P	Fe	Pb	Cu
9.0~11.5	≤0.05	≤0.05	≤0.10	≤0.05	≤0.02	0.5~1.0	≤0.1	≤0.25	Balance

Technical Datasheet

General Properties	Density ISO3369	≥8.78 g/cm ³
Mechanical Properties (As built)	Tensile Strength ISO6892-1	≥540 MPa
	Yield Strength ISO6892-1	≥400 MPa
	Elongation after Fracture ISO6892-1	≥20 %
	Vickers hardness ISO6507-1	≥115 HV5/15
	Hardness (HRC) ISO6507-1	147
	Thermal conductivity at 20 °C	59W/mK
	Surface roughness Ra X, Y	9µm
	Surface roughness Ra Z	10µm -26 µm
Mechanical Properties (Heat treated)	Tensile Strength ISO6892-1	N/A
	Yield Strength ISO6892-1	N/A
	Elongation after Fracture ISO6892-1	N/A
	Vickers hardness ISO6507-1	N/A

Shenzhen KINGS 3D Printing Technology Co., Ltd.

📍 Floor 14, Building 3A, Yunzhi Science Park, Shuangming Road South, Guangming Street, Guangming District, Shenzhen, Guangdong Province, CHINA, 518107



www.kings3dprinter.com



info@kings3dprinter.com