Bronze CuSn10

CuSn10

Tin bronze powder for wear parts, bushings, marine hardware, and decorative parts that would otherwise be cast.

Designations: CuSn10 · Tin bronze 90/10 · CuSn10 bronze

Supply

Item	Value
Particle-size cuts	15–45 µm · 15–53 µm
Processes	LPBF
Minimum pack	1 kg (paid samples)
Packaging	Aluminium-foil bag · 1 kg sealed pack · Drum
Documents	Lot-specific COA · Particle-size report · Safety data sheet · Chemistry report
List price	Price on request

Chemical composition, wt.%

Element	Limit
Cu	Balance
Sn	9.0–11.5
P	≤1.0
Pb	≤0.25
Ni	≤0.10
Fe	≤0.10
Zn	≤0.05
Mn	≤0.05
Sb	≤0.05
Si	≤0.02
Al	≤0.01
S	≤0.05
O	≤0.10

Typical partner-plant datasheet limits, wt.%. The quoted lot COA governs.

Powder properties · LPBF screening window

Property	Value	Note
D10	≥15 μm	
D50	30–40 μm	
D90	≤60 μm	
Sphericity	≥0.90	Method to be confirmed
Apparent density	≥4.2 g/cm³	
Tap density	≥4.5 g/cm³	
Flow	≤25 s/50 g	Method and conditioning to be confirmed

A partner-plant datasheet screening basis for this grade; the delivered lot COA remains controlling.

Typical mechanical properties

Condition	Temperature	Tensile	Yield	Elongation	Note
As built	Room temperature	≥520 MPa	≥400 MPa	≥30%	Density ≥99.5%, ≥170 HV

Partner-plant datasheet values for LPBF test bars at room temperature unless stated. Printed-part properties depend on machine, parameters, orientation, and post-processing.

Typical values, not a lot certificate. The certificate of analysis for the quoted lot governs. Formal quotations and commercial terms are valid only when issued from our official corporate email.

Request a quote: https://metal3dpowder.com/rfq/?product=cusn10 · Grade page: https://metal3dpowder.com/products/cusn10/
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