



CuNi 70/30 OptiPowder C96400: High-Conductivity Copper-Nickel Alloy for Marine and Industrial Applications

CuNi 70/30 OptiPowder 96400 is a corrosion-resistant copper-nickel alloy powder engineered for excellent strength, ductility, fabricability and thermal and electrical conductivity in demanding environments. With its balanced composition, this alloy delivers superior resistance to corrosion and stress-corrosion cracking in seawater and brackish water—making it ideal for marine, energy, and industrial components exposed to high-salinity, high-temperature and high velocity turbulent conditions.

Continuum produces OptiPowder C96400 using our proprietary Greyhound Melt-to-Powder (M2P) system. By transforming reclaimed, aerospace-grade feedstock into high-purity, consistent powder, Continuum reduces environmental impact while ensuring reliable performance for additive manufacturing, thermal spray, and other advanced forming technologies.

Typical Physical Properties¹

Property	OptiPowder C96400
Apparent Density	4.5 g/cc
Tapped Density	5.5 g/cc
Morphology	Spherical, Satellite-free
Hall Flow	<20 sec/50g

Nominal Composition (wt%)²

Element	Min	Max
Cu	Balance	Balance
Ni	28.0	32.0
Fe	0.25	1.5
C	–	0.15
Mn	–	1.5
Nb	0.50	1.5
Si	–	0.50
P	–	0.02
S	–	0.02
Pb	–	0.01

1. Properties represented for 15-45µm cut

2. Based on CDA96400 CuNi 70/30 specifications; values may be adjusted per customer requirements.

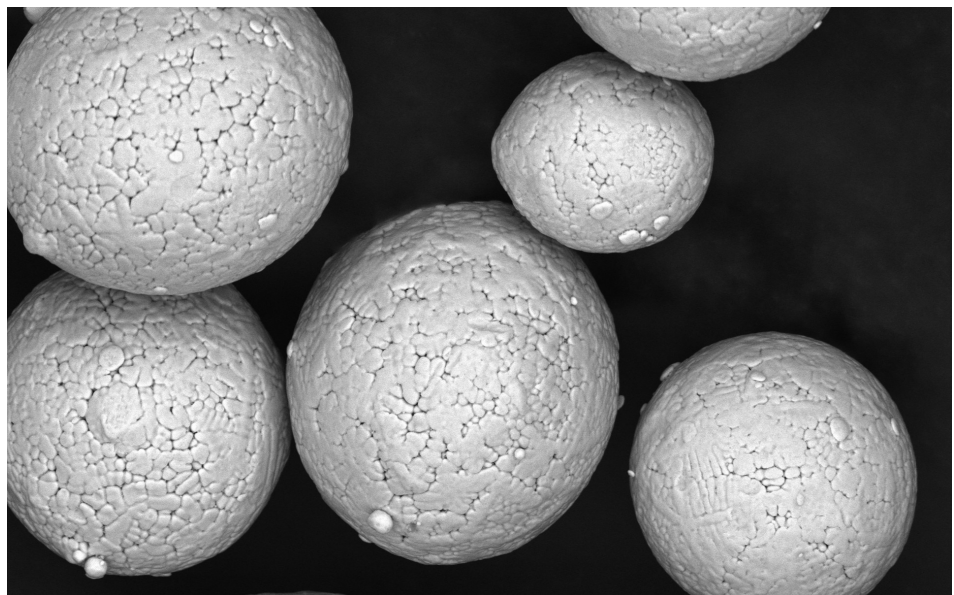
Why Choose OptiPowder NiCu C96400

- Superior Corrosion Resistance – Outstanding durability in marine and corrosive environments
- Excellent Thermal & Electrical Conductivity – Maintains conductivity while providing mechanical strength
- Stable Mechanical Properties – Performs consistently across a broad temperature range
- Proven Weldability & Fabrication Ease – Suitable for LPBF, EPBF, BJT, HIP and DED applications
- Good erosion resistance to high velocity turbulent water containing slit and bubbles
- Sustainable Source Assurance – Produced from reclaimed feedstock under Continuum's OptiVantage quality framework

Available PSDs & Customization

Continuum Powders offers OptiPowder C96400 in a variety of particle size distributions (e.g., 10–45µm, 15–53µm, 45–106µm, 0–400µm), tailored to your specific Advanced Manufacturing process and platform.

Contact us to discuss your application and receive a tailored quote.



Contact us to receive a quote and learn more about how OptiPowder C96400 can improve your advanced manufacturing projects.

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