

DATA SHEET

CuCrZr

**SHENZHEN ADDIREEN TECHNOLOGIES CO., LTD**

Highly Reflective Metals

Refractory Metals

Common Metals

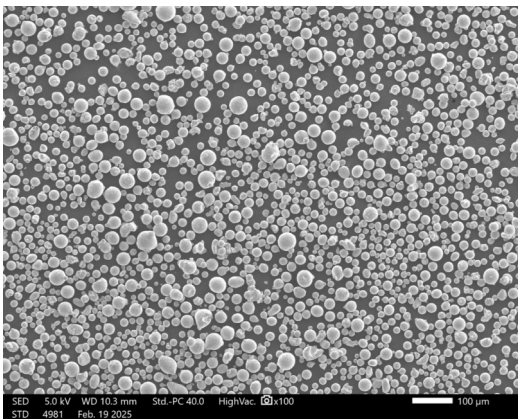
CuCrZr

Overview

Gas atomized--Copper alloy excels thermal and electrical conductivity at high temperatures, with superior high - temp mechanical properties.

Highlights

- ⚙ Mechanical properties superior to pure copper , but moderate to high conductivity.
- 🔧 Suitable for thick-layer printing



MATERIAL PARAMETERS			
Particle Size	Flowability	Apparent Density	Oxygen Content
15-53μm	≤30	≥4.0	≤300ppm



CHEMICAL COMPOSITION IN WT%			
Item		Specification	
Essential Elements(wt%)		Cu	Balance
Impurities(wt%)	Cr		0.5-1.5
	Zr		0.05-0.25
	O		≤0.06
	Fe		≤0.05
	Si		≤0.05
	P		≤0.01
Laser Particle Size Distribution(%)	D10(μm)		15-25
	D50(μm)		30-40
	D90(μm)		45-60
TYPICAL PART PROPERTIES			
Density (%)	Tensile Strength R _m (Mpa)	Yield Strength R _{0.2} (Mpa)	Elongation at Break A(%)
99.98%	510MPa	410MPa	20%

Data tested on Addireen XH-M160 green laser test bar.

Typical Applications

Thrust chamber | Induction coils | Connectors

