

DATA SHEET

CuCrZr

**SHENZHEN ADDIREEN TECHNOLOGIES CO., LTD**

Highly Reflective Metals

Refractory Metals

Common Metals

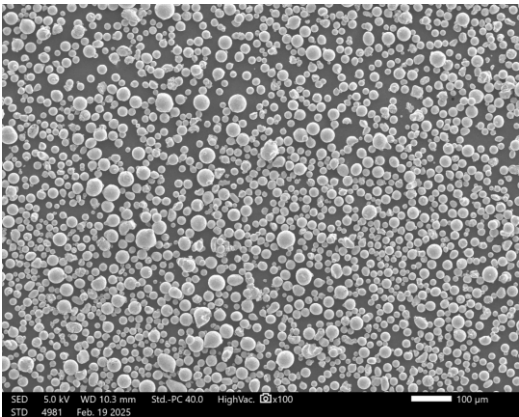
CuCrZr

Overview

Gas atomized--Copper alloy exhibits excellent 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	≤20s/50g	≥4.2g/cm ³	≤300ppm



CHEMICAL COMPOSITION IN WT%			
Item	Specification		
Essential Elements(wt%)	Cu	Balance	
	Cr	0.5-1.5	
	Zr	0.05-0.25	
Impurities(wt%)	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 _{p0.2} (MPa)	Elongation to Failure A(%)
≥99.98	500-520	400-420	20-30

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

Typical Applications

Thrust chamber | Induction coils | Connectors

