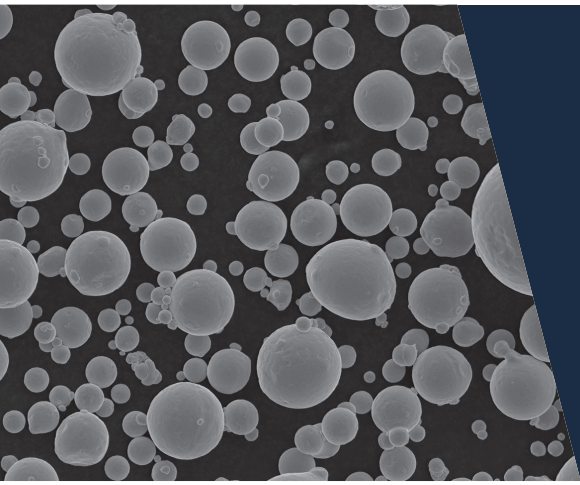


# COPPER ALLOYS



## Copper Alloys

Cu-based alloy cover a much wider range of application than most other alloy due to its functional properties. Typical applications include cooling and electrical. But also, widely used in bearings. Every application needs its own specific composition and powder. Gas Atomized powder ensure a high level of purity and low level of oxygen in all powder fraction along with the general spherical appearance.

### CONTACT INFORMATION

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- Spherical Powder for Additive Manufacturing
- Particle Size Engineered for Laser Beam Melting (LBM), Electron Beam Melting (EBM) and Cold Galvanizing (CG) Spray
- Rigorous Quality Testing to AS9100 “D”
- Powder Size Available for Metal Injection Molding and DED, “Direct energy deposition”

## Typical Powder Characteristics

Laser Particle Size Analysis [um]				Powder Properties		EBM	CG
Size Type	D10	D50	D90	Flow	AD		
15-53	15	30	45	15s/50g	4.1 g/cm <sup>3</sup>		
45-105	58	76	102	20s/50g	4.6 g/cm <sup>3</sup>	X	X

Copper Based Alloys		
Standard	Nominal Composition	Application
C70320 CW112C	CuNi3Si	High Conductibility
C18000 CW111C	CuNi2SiCr	High Conductibility
C18150 CW106	CuCrZr	Wear Resistance
OFHC Cu	Cu 9999% 0<300 ppm	Highest Level of Purity
OFHC Cu	Cu High Oxygen	Modified For Specific Laser
CWxxxx (Modified)	Adjusted Composition	Customer Specific

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