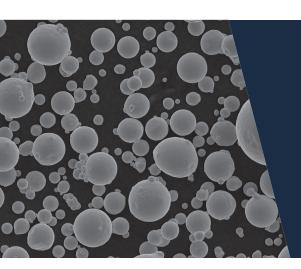
COPPER ALLOYS



Copper Alloys

Cu-based alloys cover a much wider range of applications than most other alloys due to their functional properties. Typical applications include heat exchangers, electrical and are widely used in bearings. the Alloy composition can be tailored to specific applications. Gas Atomized powders ensure a high level of purity, low level of oxygen and are highly spherical with low satellites 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/cm³		
45-105	58	76	102	20s/50g	4.6 g/cm³	Х	Х

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 99.99% 0<300 ppm	Highest Level of Purity					
OFHC Cu	Cu High Oxygen	Modified For Specific Laser					
CWxxxx (Modified)	Adjusted Composition	Customer Specific					

This Material Specification is confidential and is supplied on condition that it must only be used for the purpose for which it has been supplied and must not be copied, exhibited nor communicated to third parties without the consent of GKN Powder Metallurgy whose property it remains.



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