

Technical Information Bulletin



CuLox Nano Copper Powders

CuLox Nano
(10 - 100 nanometers)
N6010, N6050, N6100

Description

CuLox provides pure copper powders in nano sizes. These powders are made by a special Metal Vaporization Process (MVP). Our nano powders are highly crystalline with nearly uni-modal size distributions. Powder size can be critically controlled from 10nm to 100nm. These powders are offered dry or dispersed in a carrier fluid. Dry powders have a protective coating on the surface.

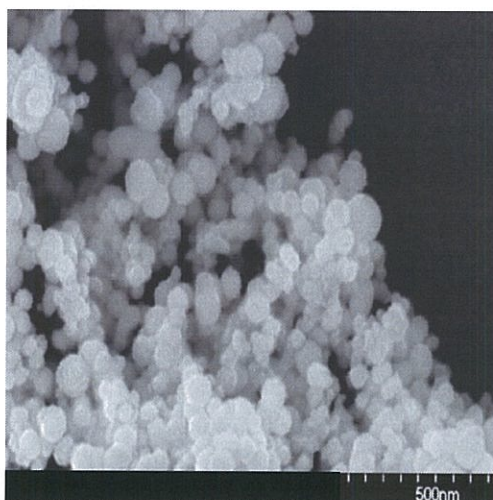
General Application

Metal source for high speed printing, sintering aid, viscosity modifiers, metal source for digital ink-jet printing inks, pastes for fine line printing, etc. Other applications include photovoltaic and anti-microbial.

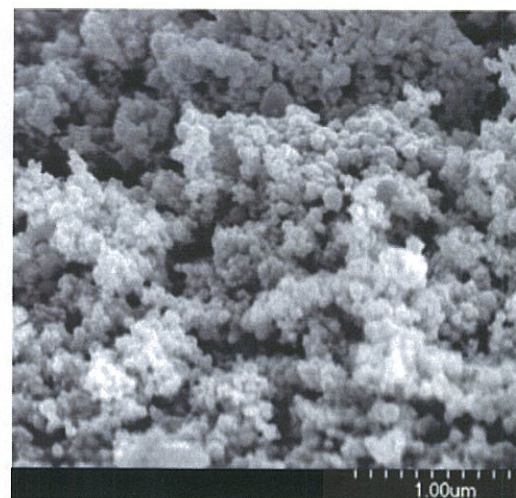
Size and Properties

Products	N6010-N6100
Total Copper (wt% total metal basis)	99.9wt%
Size (nominal) by SEM, TEM	10nm -100nm (average)
Tap Density (gm/cc)	N/A
Surface Area (m ² /g)	20-90
Shape	Spherical

Typical SEMs Images



Copper Powder 50 nanometers



Copper Powder 100 nanometers

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