

American Elements Copper Nanoparticles

Category : Metal , Nonferrous Metal , Pure Element

Material Notes:

General Description Copper (Cu) Nanoparticles, nanodots or Nanopowder are black brown spherical high surface area metal particles. Nanoscale Copper Particles are typically 10-30 nanometers (nm) with specific surface area (SSA) in the 30 – 70 m²/g range and also available in with an average particle size of 70 - 100 nm range with a specific surface area of approximately 5 - 10 m²/g. Nano Copper Particles are also available in passivated and in Ultra high purity and high purity and carbon coated and dispersed forms. Applications for copper nanocrystals include as an anti-microbial, anti-biotic and anti-fungal (fungicide) agent when incorporated in coatings, plastics and textiles, in copper diet supplements, in the interconnect for micro and integrated circuits, for its ability to absorb radioactive cesium and in super strong metals and alloys and in nanowire, nanofiber and in certain alloy and catalyst applications.. Further research is being done for their potential electrical, dielectric, magnetic, optical, imaging, catalytic, biomedical and bioscience properties.

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http://www.lookpolymers.com/polymer_American-Elements-Copper-Nanoparticles.php

Physical Properties	Metric	English	Comments
Particle Size	0.010 - 0.030 µm	0.010 - 0.030 µm	
	0.070 - 0.10 µm	0.070 - 0.10 µm	
Specific Surface Area	5.0 - 10 m ² /g	5.0 - 10 m ² /g	
	30 - 70 m ² /g	30 - 70 m ² /g	
Molecular Weight	63.55 g/mol	63.55 g/mol	

Descriptive Properties	Value	Comments
Appearance	Black	

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