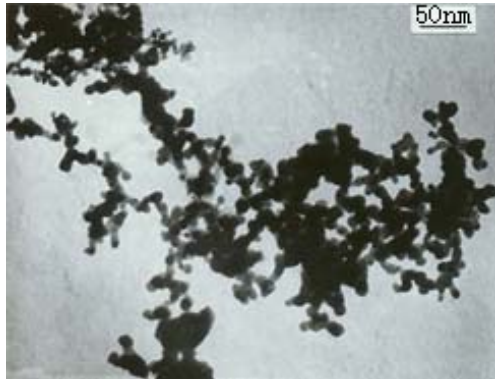


Copper Nanopowder from NaBond



Grade A

NaBond_Copper nanoparticle(Grade A) is produced by laser evaporation process. The raw material used is high purity Copper. This process enables us to make high purity, small particle size, high active Copper nanoparticles in large quantity and low cost.

Product name: Copper nanopowder

Appearance: Purple & blue powder

Purity: 99.8% (metal basis)

Impurities: Ag <0.001%, Ca <0.001%, Mn <0.0001%, Si<0.10%

Average particle size: 25nm (D90<50nm)

Specific surface area: 30-50 m²/g

Bulk density: 0.15-0.35 g/cm³

Packing: Vacuum packed

Grade A1 (Carbon coated)

Product name: Carbon Coated

Copper nanopowder

Appearance: Black powder

Carbon <2.08%

S< 0.003%

Ca <0.08%

Si < 0.006%

Cu >93.58%

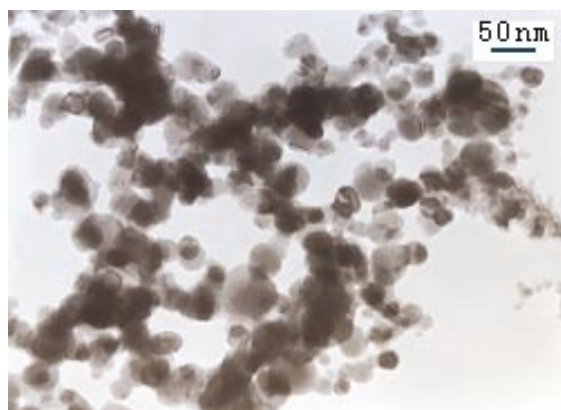
Average particle size: 25nm

(D90<50nm)

Specific surface area: 30-50 m²/g

Bulk density: 0.15-0.35 g/cm³

Packing: Vacuum packed



Grade B

Product name: Copper nanopowder

Appearance: Purple powder

Purity: 99.5% (metal basis)

Average particle size: 40-60nm

Specific surface area: 12 m²/g

Bulk density: 0.19 g/cm³

Packing: Vacuum packed

Grade C

Product name: Copper nanopowder

Appearance: Purple powder

Purity: 99.5% (metal basis)

Average particle size: 60-100nm

Specific surface area: 6-8 m²/g

Bulk density: 0.21 g/cm³

Packing: Vacuum packed

Applications:

Conductive slurry -The electronic size with good performance made of copper nanoparticle instead of valuable metal particles cuts cost to a large extent. This technology is used to the preference of microelectronic processes.

The superficial conductive coating processing of metal and non-ferrous metal-Due to their high-activity surface, aluminum, copper and nickel nanoparticle can coat under oxygen-free condition below smelting point of the particles. This technology can be adopted in the manufacture of microelectronic devices.

Storage

NaBond_Copper nanopowders have a shelf life of or more than 2 years. As Copper nanopowder is flammable, it should be kept at no-air and dry conditions, and it's best to use it under inert gas protection.

It is passivated before shipment for safe shipping.
