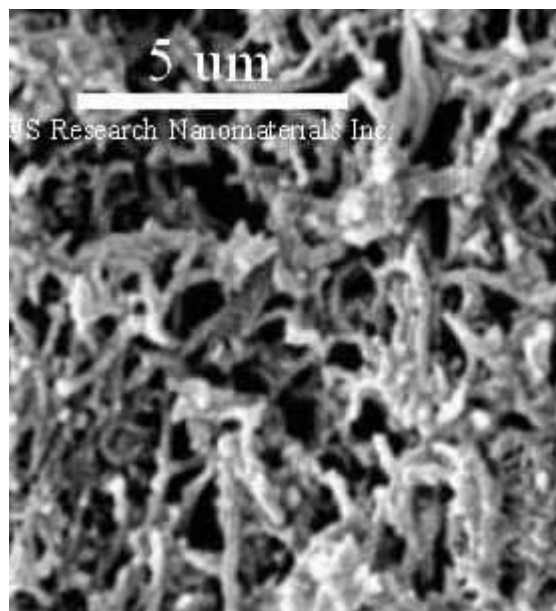


Silver Carbon Nanotubes

CNTs Doped with 10wt% Ag Nanopowder

Properties:

Effectively improve the electrical conductivity and mechanical properties; Effectively enhance tensile strength, hardness and elastic modulus characteristics.



Potential Applications:

screen displays, electric motors, sensing devices, aerospace and automotive devices, body armor and tear-resistant cloth fibers and textiles products, sports equipments. Serve as a conductive metallic or semiconductor, conductive films in coatings, plastics, certain bioscience applications, solar and electronic applications, additives in polymers, catalysts, electron field emitters for cathode ray lighting elements, flat panel display, gas-discharge tubes in telecom networks, electromagnetic-wave absorption and shielding, energy conversion; lithium-battery anodes, hydrogen storage, nanotube composites (by filling or coating), nanoprobe for STM, AFM, and EFM tips, nanolithography; nanoelectrodes, drug delivery, sensors, reinforcements in composites, supercapacitor.



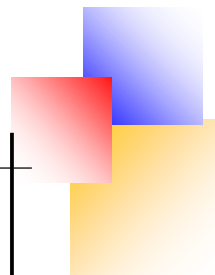
۰۵۱۳۸۶۸۸۸۹۰
۰۹۱۲۹۱۵۲۱۶۷
۰۹۱۵۲۵۳۸۸۹۰



۰۹۳۹۷۹۷۳۹۶۸

مشهد- بلوار وکیل آباد- سیدرضی ۹- پلاک ۱۹۹
کدپستی: ۹۱۸۸۸۵۵۴۴۷





10wt% Ag Nanopowder Parameters:

Silver Nanopowder / Nanoparticles (Ag, metal basis)

Silver nanoparticles true density: 10.5 g/cm^3

Silver nanoparticles purity: 99.99%

Silver nanoparticles APS: 20 nm

Silver nanoparticles SSA: $\sim 18\text{-}22 \text{ m}^2/\text{g}$

Silver nanoparticles color: black

Silver nanoparticles morphology: spherical

90wt% Carbon Nanotubes Parameters:

Multi Walled Carbon Nanotubes (MWNTs, MWCNTs)

Purity: $> 97\%$ (carbon nanotubes)

Average Outside Diameter: $> 55 \text{ nm}$

Average Inside Diameter: 8 nm

Length: $10\text{-}30 \text{ um}$ (TEM)

SSA: $> 60 \text{ m}^2/\text{g}$ (BET)

Color: Black

Ash: $< 1.5 \text{ wt}\%$

Electrical Conductivity: $> 100 \text{ s/cm}$

Tap Density: 0.12 g/cm^3

True Density: $\sim 2.1 \text{ g/cm}^3$

