

Large Inner Diameter Thin Multi-Wall Carbon Nanotubes, Purity: >90%, OD: 30-60nm, ID: 20-50nm

Stock#: US4440

Please click [here](#) for price information.

Details:

Large Inner Diameter Thin Multi-Wall Carbon Nanotubes, (MWNTs)

Purity: > 90 wt% (carbon nanotubes) (from TGA & TEM)

Outside diameter: 30-60 nm (from HRTEM, Raman)

Inside diameter: 20-50 nm (from HRTEM, Raman)

Length: 1-10 μm (TEM)

SSA: > 200 m^2/g (BET)

Color: Black

Ash: < 5 wt% (TGA)

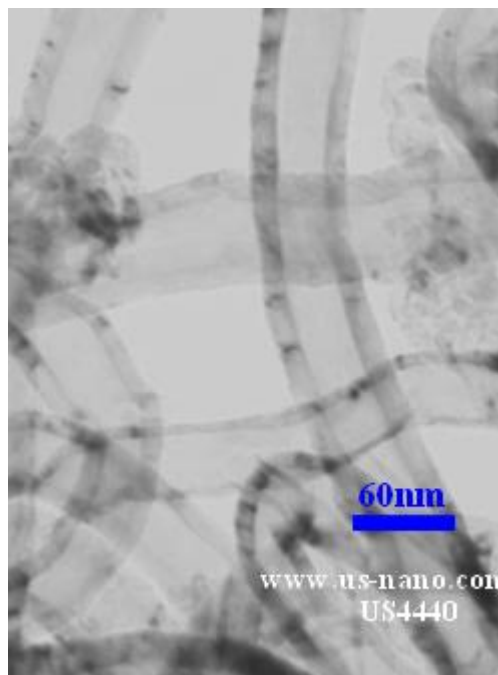
Electrical conductivity: >100 s/cm

Tap density: 0.0441 g/cm^3

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

Ignited Temperature: >580 $^{\circ}\text{C}$

Manufacturing method: CVD



Product Description:

This product is manufactured by alcohol pyrolysis using ferrocene as catalyst in floating reactor. The inner diameter is more than 20 nm mostly, and the CNTs have a thin wall mostly. Because it is produced in floating reactor, the product has a wide range outside diameter distribution.

Application:

Potential applications of carbon nanotubes are: (1) additives in polymers; (2) catalysts; (3) electron field emitters for cathode ray lighting elements; (4) flat panel display; (5) gas-discharge tubes in telecom networks; (6) electromagnetic-wave absorption and shielding; (7) energy conversion; (8) lithium-battery anodes; (9) hydrogen storage; (10) nanotube composites (by filling or coating); (11) nanoprobe tips for STM, AFM, and EFM; (12) nanolithography; (13) nanoelectrodes; (14) drug delivery; (15) sensors; (16) reinforcements in composites; (17) supercapacitor.

[MSDS](#)

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