



PureWave Graphene Powder/ Dispersion

Our PureWave Graphene Nanoplatelets (GNP) material is composed of thin, highly dispersible 4-7 layer graphene nanoplatelets with very low oxygen and polyaromatic hydrocarbon (PAH) content. The turbostratic and wavy morphology of the material leads to an unequaled ability to be dispersed in a variety of solvents and resins.

Using our special milling process, our PureWave Graphene nanoplatelet powder can be effectively dispersed into a water-soluble polymer matrix. This allows for the creation of a material with very advantageous properties at high loadings (up to 8 wt% Graphene) that can be utilized for numerous applications to provide thermal stability, mechanical property enhancement, dielectric constant improvement, and electrical conductivity.

From \$100/2g



Izui Photography Inc

1-4 Layer PureSheets Graphene

The PureSheets MONO and QUATTRO graphene product inks have been utilized in many scientific works over the years. The nanomaterial has found usage within applications such as Charge Storage, Biosensing, and Memory Devices.

From \$100 / 10mg



99.99+% Semiconducting IsoSol-S100

The use of truly scalable and patent-pending technology developed by the National Research Council of Canada, within the Printable Electronics Program, has enabled us to disperse and extract single-walled carbon nanotubes to the highest levels of semiconducting enrichment and purity to date: IsoSol-S100. The starting materials are the purified and highly-scalable RF-plasma grown carbon nanotube supplied by Raymor Nanotech1.

Experimentally, thin film transistors have been prepared from the IsoSol-S100 material on SiO₂/Si substrates, leading to average mobilities exceeding 27cm²/(Vs) and On/Off ratios of 1.8×10⁶. These properties allow the material to be well-suited for ink jet and aerosol jet printing. Haitian Chen from USC says: "Our research group has been able to obtain excellent electrical properties, more specifically mobility of 25 cm²V⁻¹s⁻¹ and current on/off ratio of 4 x 10⁶ from thin film transistors (TFTs) based on Nanointegris 99.9% semiconducting carbon nanotube (CNT) solution (IsoSol-S100). It is an outstanding material for the development of CNT-based macroelectronics and flexible macroelectronics."

From \$695 / mg



99% Semiconducting IsoNanotubes-S Solution

The IsoNanotubes-Semiconducting product has been successfully utilized in numerous scientific works over the years. The primary usage for the IsoNanotubes-S material is for the creation of thin film transistors. Because of the IsoNanotubes-S' high single-walled nanotube purity, length, pristine surface, and semiconducting properties, this material has proven beneficial in applications such as Gas Detection, Temperature Sensing, CMOS circuit creation, and has laid the ground work for the development of novel and exciting technological advancements.

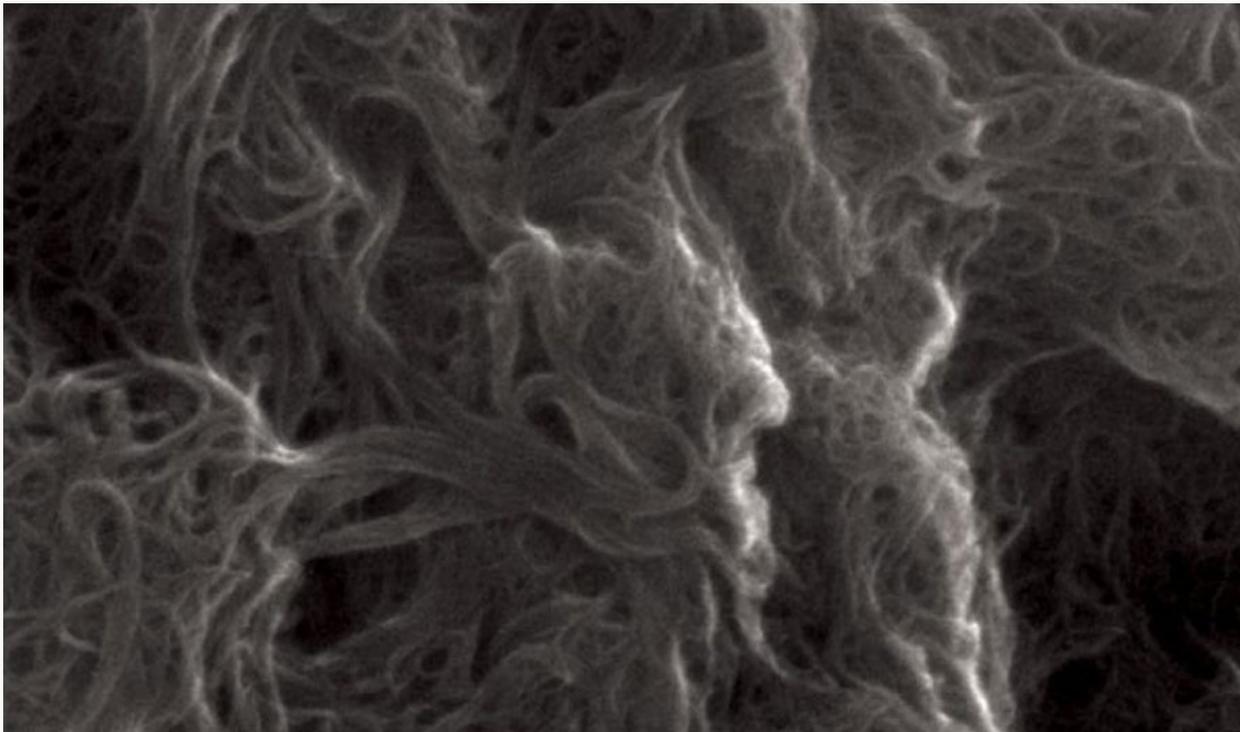
From \$250 / mg



99% Metallic IsoNanotubes-M Solution

The IsoNanotubes-M product has been a reliable staple of NanoIntegris Technologies for many years now. This one-of-a-kind, high-purity, conductive material can be utilized for many types of applications such as a replacement for Indium Tin Oxide (ITO) in flexible electronics, within highly conductive wire composites, smart glass/ windows, within high-speed bolometers for Infrared sensors, and for developing intelligent cellular delivery systems.

From \$250 / mg

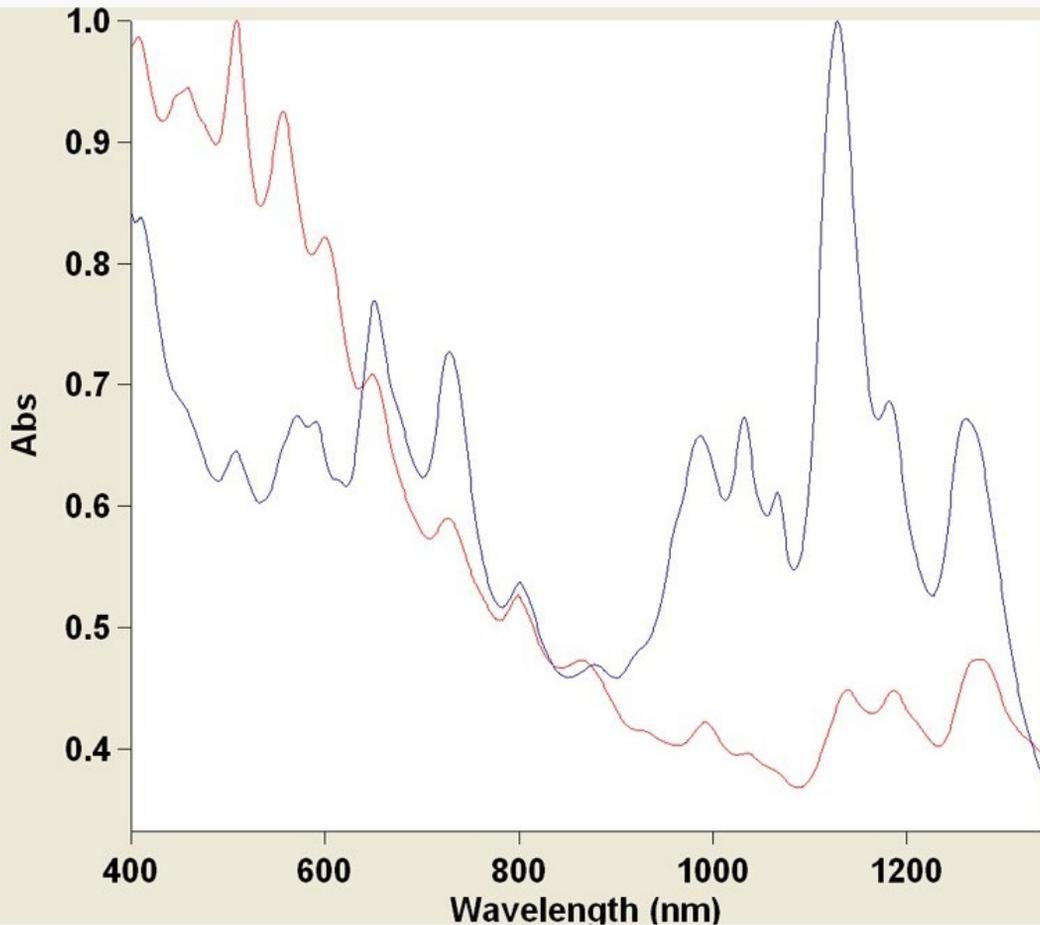


Small Diameter HiPco® Nanotubes

The use of NanoIntegris' HiPco within scientific research has proven quite extensive. This small-diameter SWCNT material has found to be a valuable component for applications such as cancer therapy, battery electrode conductivity, electric field enhancement, thin film transistor creation, and gas sensors.

We currently offer our HiPco Raw nanotube products in two forms: Fluffy Powder and Wet Cake. Due to safety concerns with handling the extremely low-density raw material, the HiPco Raw product is provided as a wet cake for orders of greater than 5g unless otherwise requested. The wet cake is roughly 10wt% nanotubes. The remaining mass is a mixture of 10% ethanol and 90% water, which can be easily removed by thermal or centrifugal treatment. (e.g. 10.70g of wet cake will be provided for a 1g HiPco Raw SWNT order.

From \$500 / mg



Electronically Enriched Small Diameter Nanotubes (IsoNanoGauge Tubes)

The use of NanoIntegris' HiPco within scientific research has proven quite extensive. This small-diameter SWCNT material has found to be a valuable component for applications such as cancer therapy, battery electrode conductivity, electric field enhancement, thin film transistor creation, and gas sensors.

We currently offer our nanotube products in two forms: Aqueous surfactant solution at a concentration of 0.01mg/mL and a surfactant-eliminated "powder" (thick film or buckey paper). We remove the surfactant from our powders via a proprietary process that involves filtration and thorough rinsing. The end result is a film-like structure, as can be seen in the above picture, bearing a density around 1mg/4.8cm². Our powders have been formulated so that they are easy to use, break apart, and disperse in solvents with gentle sonication.

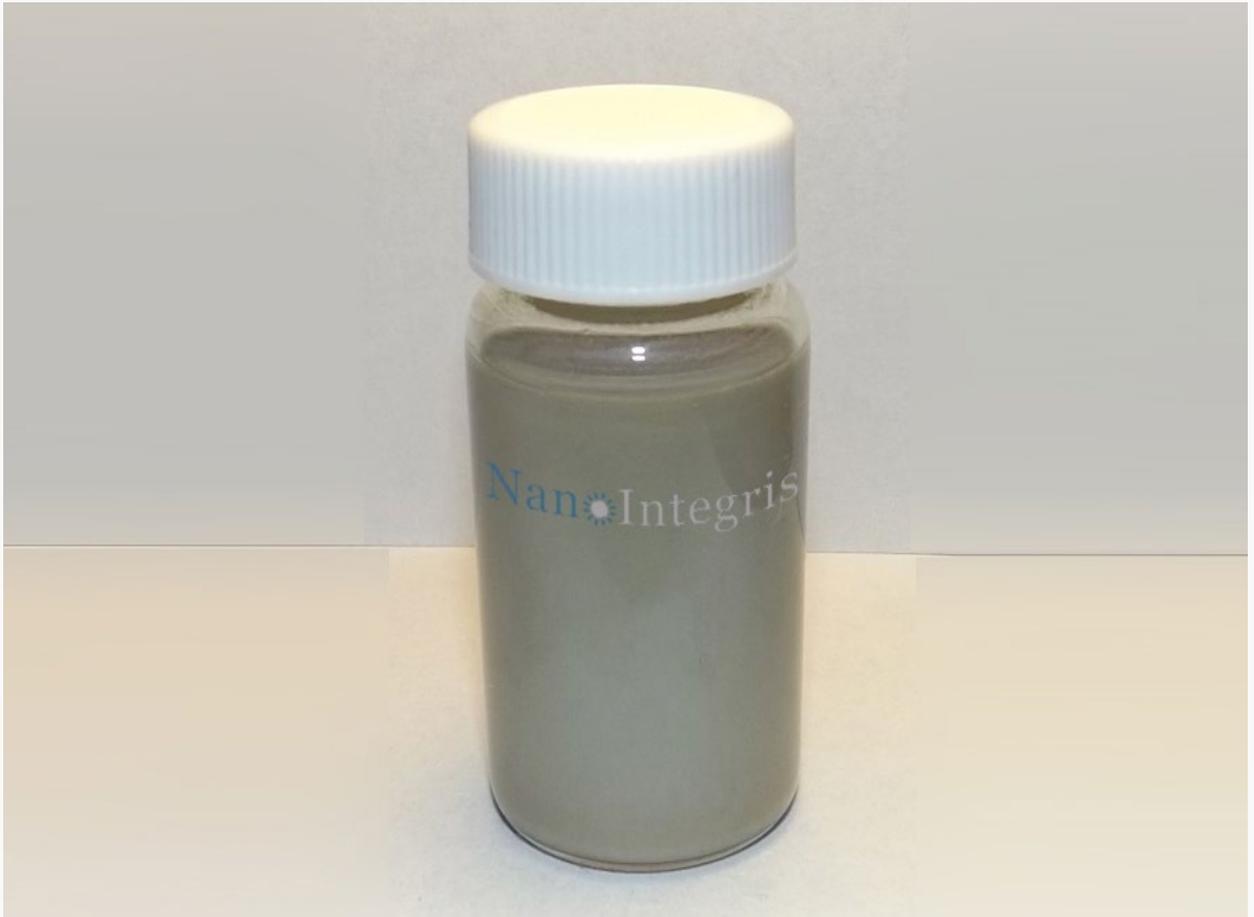
From \$499 / mg



Unsorted Pure/Super Pure Tubes

We currently offer our nanotube products in two forms: Aqueous surfactant solution and surfactant-eliminated “powder” (thick film or buckey paper). We remove the surfactant from our powders via a proprietary process that involves filtration and rinsing. The end result is a film-like structure. Our buckey papers (thick films) have been formulated so that they are easy to use, break apart, and disperse in solvents with gentle sonication

From \$75 / 25mg



TCF-30: Transparent Conductive Ink

Our non-ITO based, Highly Conductive Transparent Ink is based upon Silver Nanowire and does not comprise SWNTs. It works well with Slot Die coating and Micro-Gravure coating, along with other application techniques.

1 liter of the ink can cover 100 square meters and obtain resistivities of $30 \Omega/\square$ with a coating thickness around $25 \mu\text{m}$ (~1 mil).

The silver nanowire content of each ink is 1% (1.05g per 100mL solution) and is dispersed within Isopropyl Alcohol. Other additional solutes include water, ethyl alcohol, propylene glycol, glycerine, and terpenol.

From \$350/100mL



80+% BNNT Powder

BNNT presents similar thermal conducting and mechanical properties compared to CNT, while its thermal/chemical stabilities, biocompatibility, electric insulating, and thermal neutron absorbing properties are much higher than those of CNT. Due to these superior properties, BNNT is currently under exploration in many areas of IT, space/nuclear, bio-medical, and energy.

From \$400 / g



99wt% Multi-Walled Nanotube Powder

Produced by CCVD, our MWNT's are offered in a range of purities and diameters. The most popular material requested has an outer diameter of ~20nm and inner diameter of 4nm, a length of 1-12 μ m, 0% Ash content, and >99wt% MWNT purity.

From \$100 / 10g