



Carbon Conductive Ink

Product Catalogue

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Working

Carbon Conductive Ink is a unique ink formulation involving carbon nanoparticles as an ingredient. It is also known as CNTs Ink. These particles are highly conductive and thus carry an electric charge. Conductive inks provide a great way to have electrical properties for the applications of inks. Often, they help draw electrical circuits on paper. Carbon-formulated ink having good electrical conductivity, is used for various electronics and thermal applications by screen printing, dipping, and brushing. Moreover, they are an affordable and economical alternative to the traditional ways of leaving conductive traces. The carbon ink comprises CNTs or nanoparticles and solvents as its ingredients. Therefore, researchers also denote them by carbon nanotube inks.

Product Code: CARBINK

Technical Properties

<i>SPECIFICATIONS</i>	<i>VALUES</i>
Bulk Density	1.2 g/ml
Surface Resistivity	2.2 ohms/sq
Product Composition	Graphite
Percentage loading	60 %
Sintering Temperature	100 °C
Sintering Time	30 Minutes
Particle Size	10-50 microns
Binding	Paper, PET, Glass, Polyimide, Metal, And Silicon Oxide
Form Factor	Liquid
Coverage	1 m ² for 20 grams
Recommended mesh	100 Mesh
Color	Black
CAS NO.	7782-42-5
Viscosity	20600 cps
Thinner	Normally not required. If required, use our thinner
Shelf Life	Six months in an unopened container

Applications

- Printing technology such as Inkjet printers, Label printing, and Switches.
- Electrical membranes in computer keyboards and chip-less RFID technological applications.
- Useful for windshield defrosters and act as an antenna on the rear window glass.
- An affordable alternative to applying resistors and conductors to various non-conductive mediums such as plastics, ceramics, paper, polyester/polyimide films, laminates, and many other surfaces by the screen-printing process.
- Gold, nickel, resistors, shielding surfaces, discrete resistors, cross-over conductors, and much more is replaceable by carbon nanotube ink in PCB as it saves space and helps the gadget get smaller in size.
- Heated mirrors in automobile electronics, low-volt batteries, and touch screen panels. 3-d printing, 3D antennas, conformal printing, and Flexible hybrid electronics are used as conductive inks.

Features

- Excellent Screen Printing Properties on various substrates
- Very Good Adhesion on Paper, PET, Mylar, Glass, Epoxy, Polyamide, Acrylic, Silicon Oxide, Metals, and many other substrates
- Dries quickly at low temperature
- Excellent resistance to abrasion, scratching, flexing, and creasing

Safety Instructions

- There are high chances of the ink exposing to the researcher's skin. This might cause irritation and itching. Therefore, use gloves when handling the product.
- The inks might release toxic fumes, which are hazardous to health when inhaled. Always use a mask while using the product and have proper ventilation in the working area.
- Use goggles to protect the eyes from accidental exposure to the ink.
- Use an apron or PPE kit to protect your clothes.
- Cover the surface with paper or any other material so it is easy to clean if the ink spills.

Packaging

Close the cap tightly and tightly store the containers at room temperature with lids. We are not responsible if the product is stored in appropriate conditions. The material should not be stored at temperature below 0 °C or greater than 30 °C.

Handling

When handling, the researcher should use powder-free non-latex gloves, which should be held carefully. While experimenting, if the operator uses ink with bare hands, the chances of contamination due to finger oil are very high. Therefore, it is advised to use nylon or polyester gloves.



Feel Free to Reach Us

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