

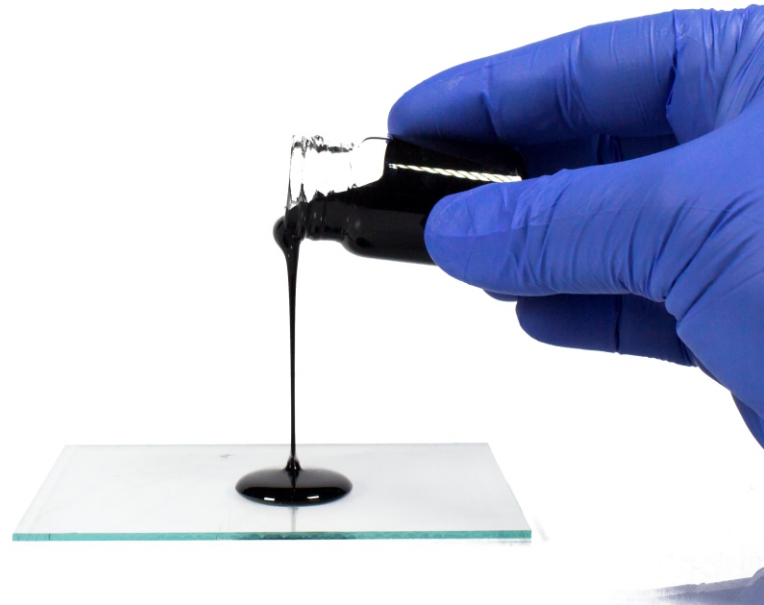
# C

## PRODUCT FEATURES

- ✓ Neutral color
- ✓ Low haze
- ✓ Flexibility
- ✓ Durability
- ✓ Stretch ability

# CARBON NANOTUBE

# CNT Conductive Ink



## Product Description

Carbon nanotubes (CNT) are nanomaterials. They are often seen as a form of rolled up graphene and have interesting properties, including electrical conductivity, IR & UV-absorption, thermal conductivity and extreme strength. Single walled carbon nanotubes offer an alternative to metallic conductive inks. The nanotubes exhibit high conductivity, oxidation resistance. Carbon nanomaterial based conductive inks are used in printed and flexible electronics, thin film transistors, electrochemical sensors, supercapacitors and photovoltaics.



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## Quick Facts

CAS	:	308068-56-6
Purity	:	99.9%
Molecular Formula	:	C
Appearance	:	Semi-Solid Liquid Paste

## PROPERTIES

Viscosity 3% ( $\pm 0.5$ )

Surface Tension 27  $\pm$  3

Sheet resistance <1000  $\Omega$ /sq

pH 10.7

Density 1.0g/cm<sup>3</sup>

Boiling Point 70-160°C

Flash Point -19°C

Storage Temp. 7-15°C

## Application

- ✓ Energy Storage
- ✓ Molecular Electronics
- ✓ Thermal Materials
- ✓ Structural Materials
- ✓ Electrical Conductivity
- ✓ Fabrics And Fibers
- ✓ Catalyst Supports
- ✓ Biomedical
- ✓ Air & Water Filtration
- ✓ Conductive Plastics
- ✓ Conductive Adhesives
- ✓ Ceramics
- ✓ Capacitive Sensor
- ✓ EMI shielding
- ✓ Thin film transistors,
- ✓ Electrochemical sensors,
- ✓ Supercapacitors and photovoltaics.

To avoid premature solvent evaporation and lower risks of screen blockage the paste should be print-flood processed.

## Clean-Up

Clean the equipment by alcohol such as propanol or our thinner.

## STORAGE AND shelf-life

Close the cap tightly and store the container at room temperature. Containers should be stored at room temperature (10-25°C) with lids tightly sealed.

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