

# Technical Data Sheet

## Graphene Ink I-WH12

**I-WH12** is hydrophilic ink designed for flexible screen-printed circuit and electronic device applications. The printed layer shows excellent electrical conductivity.

### Physical Property

- Appearance : Black paste
- Solid content :  $35 \pm 1.2$  wt %
- Pencil Hardness :  $\geq 2B$
- Sheet Resistance :  $\leq 15 \Omega/\square/\text{mil}$
- Viscosity<sup>+</sup> :  $30,000 \pm 10,000$  cps
- Shelf Life : Sealed for 3 months @ 25 °C

<sup>+</sup> Viscosity: Brookfield HADV-I+ with Spindle #6 @ 30rpm

### Recommended Operation Condition

- Settling of solid may occur and compositions should be thoroughly mixed prior to use.
- Mix carefully in case of bubbling during operation.
- 150~250 mesh of polyester screen for printing is suggested.
- Screen type : Polyester
- Curing condition : 30 minutes @ 110 ~ 120 °C
- Dilution of this product is NOT recommended.
- Clean up : Ketone

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Please note that partial of the analysis data are also conveniently available online at [www.graphene.com.tw](http://www.graphene.com.tw)

- Please wear protective cloths as well as installing full ventilation during the operation.

## Storage

- Graphene Ink should be stored in a clean, stable environment at room temperature with their lids tightly sealed.
- Storage in high temperature ( $>30\text{ }^{\circ}\text{C}$ ) or freezers ( $<0\text{ }^{\circ}\text{C}$ ) is NOT recommended.

## Safety Issue

- Products are intended for use in an industrial environment by trained personnel. Please follow proper health/safety processes regarding storage, handling and processing of the products. For Safety and Handling information pertaining to this product, refer to Safety Data Sheet (SDS).

## Package

- The standard package is 1KG/Plastic jar. It could be customized according to customers' requirement.



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