

# Technical Data Sheet

## Graphene Lubricant Additive C-SI02

**C-SI02** is a concentrated graphene silane dispersion (2 wt%) used as an additive in lubricant. The additive can be easily diluted and blended into the lubricant such as engine oil with high uniformity.

### Physical Property

- Appearance: Black liquid
- Solid Content:  $2\pm 0.1$  wt%
- Solvent: Hexadecyltrimethoxysilane
- Viscosity<sup>+</sup>:  $1,500\pm 500$  cps
- Shelf Life: Sealed for 3 months @ 25 °C

<sup>+</sup> Viscosity: Brookfield HADV-I+ with Spindle #3 @ 50rpm

### Recommended Operation Condition

- Dilute the C-SI02 with lubricant before using; 10 ppm graphene in the lubricant is recommended. (For example: 0.5 g C-SI02 added into 1 L engine oil.)
- Settling of solid may occur and compositions should be thoroughly mixed prior to use.
- Please wear protective cloths as well as installing full ventilation during the operation.

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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)

## Storage

- Graphene lubricant additive should be stored in a clean and stable dry box 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 100 g/Plastic jar. It could be customized according to customers' requirement.



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