

# Graphene Nano Argentum Powder

**TDS/GRSP50** (Patented product)

## Product Technical Information

### Introduction

This product has superior and highly efficient bacteria-killing properties and it is very safe when it is used. In addition it contains a small amount of functional groups and hence it is apt to make composite materials with organic or inorganic materials. This product can be served as a nano dope to kill bacteria and prevent from mildew and further more it enhances abrasion-resistant, tough tenacity, conductivity of electrical & thermal, etc.

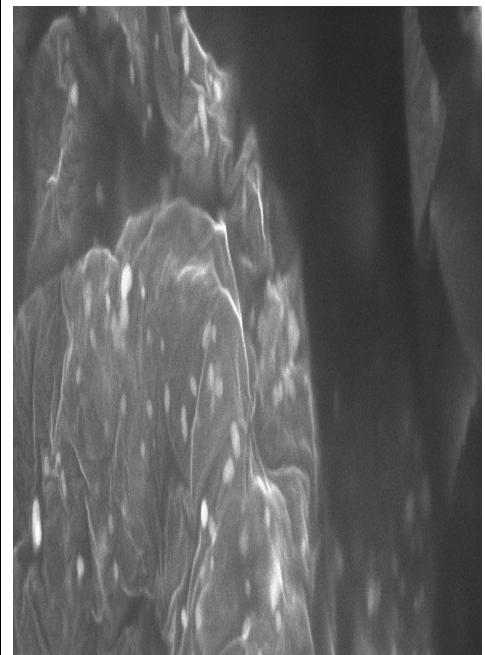
Application Area:

- Argentum layer
- Fibers and fabrics
- Ink printed circuit
- Antibacterial filter
- Antibacterial resin

### Technical Specifications

Technical Parameters

Performance parameters	Specific indicators
Appearance	Dark brown powder
Antibacterial rate	99.99 %
Specific surface area	$\geq 260 \text{ m}^2/\text{g}$
C content	$\geq 55.0 \text{ w.t.}\%$
Ag content	$\leq 45 \text{ w.t.}\%$
D50	$25 \mu\text{m}$
Average lateral dimension (x,y direction)	$\geq 5 \mu\text{m}$
Average vertical dimension (z direction)	$0.8-1.2\text{nm}$



### **Notices:**

1. It should be stored in a cool, dry, well-ventilated place.
2. It should be used gently and be operated in enclosed place with exhaust fan
3. Wearing suitable respiratory protective mask, chemical safety protective glasses and gloves is required.
4. While using water fog, foam, dry chemicals or carbon dioxide to put out fire, wearing suitable respiratory protection equipment is necessary.
5. Generally, its chemical properties are stable. Avoiding heat, fire and strong oxidants.