

### DESCRIPTION

SHT GF-AG is a silver nanoparticle decorated graphene hybrid material, which possesses large aspect ratio, fine and uniform of silver nanoparticles, high surface area, and high monodispersion capability. Such unique features not only facilitate its separation in all kinds of solvents, but also perform as superior catalysts, with applications such as improved fuel cell electrodes. Moreover, SHT GF-AG can be widely applied in the field of composite materials to improve the mechanical, thermal and electric performance and also available in the area of biomaterial as antibacterial.

### FEATURES AND BENEFITS

- Large aspect ratio
- Functionalized graphene
- Fine and uniform silver nanoparticles
- High monodispersion capability

### TYPICAL APPLICATIONS

- Catalyst
- Composite
- Antibacterial
- Energy storage
- Heat spreading

### ORDERABLE AMOUNT

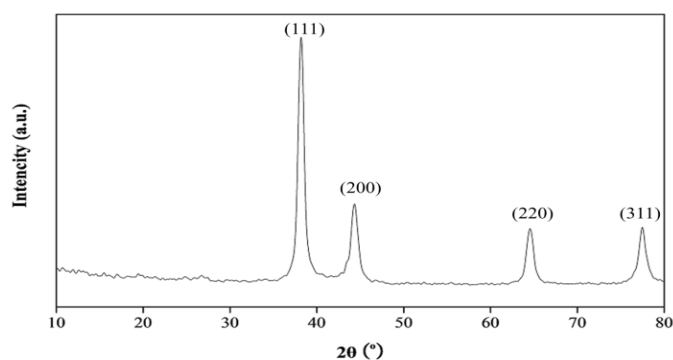
SHT GF-AG Powder: 0.25-100g

SHT GF-AG Dissolved in solution

(@2mg/L - 2g/L): 50-1000 ml



**Figure 1** TEM images of SHT GF-AG with different magnifications. A layer of silver nanoparticles with a controlled size of 2~3nm is uniformly dispersed on the surface of graphene.



**Figure 2** X-ray diffraction (XRD) patterns for SHT GF-AG.