



Product Information

Three-dimensional graphene/silver nanoparticle composites (3DGR/Ag)

Cat. No.: X26-06-ZQ2881

Size: 100 mg; 250 mg; 500 mg; 1 g; 5 g

Synonym: 3DGR/Ag; Three-dimensional graphene/silver nanoparticle composite networks; AgNP-loaded 3D graphene porous aerogels; Three-dimensional porous graphene network supported silver nanoparticles

This product is for research use only and is not intended for diagnostic use.

Product Information

Description	This material features a interconnected, monolithic three-dimensional porous graphene (3DGR) macrostructure whose internal graphitic struts are uniformly decorated with crystalline silver (Ag) nanoparticles. The three-dimensional porous network provides continuous channels that accelerate fluid mass transport and prevent nanoparticle leaching, while delivering exceptional macroscopic electrical conductivity. This hierarchical configuration successfully pairs the high noble-metal surface area and plasmonic traits of silver with the structural rigidity and low aerodynamic transport resistance of a carbon aerogel matrix.
Source	Custom synthesis
Form	Solid or powder
Purity	≥95%
Impurities	No visible impurities to the naked eye.
Identity	HPLC/MS/NMR
Stability	This product is stable for one year when stored at the recommended temperature in lyophilized powder.
Quality Level	Research grade
Applications	This product can be used to investigate fluidic multi-phase flow models through three-dimensional conductive networks, evaluate charge transport kinetics in carbon-metal monoliths, and test heterogeneous electrocatalyst configurations.
Storage	Store at -20°C.