

Product Information

CNT-Au composite wire

Cat. No.: X26-04-ZQ553

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

Synonym: Gold-decorated CNT wire; CNT/Au hybrid wire; Conductive gold-carbon nanotube wire

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

Product Information

Description	This composite material consists of aligned or bundled carbon nanotubes integrated with a continuous gold phase. The combination of CNTs and gold results in a wire with exceptional mechanical strength, high electrical conductivity, and significant resistance to oxidation. The CNT network provides a lightweight framework, while the gold ensures low contact resistance and high current-carrying capacity.
Source	Custom synthesis
Partical Size	10-30 μm
Functional Group	Gold (Au)
Form	Solid or powder
Purity	$\geq 95\%$
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 for the development of ultra-strong conductive fibers, research into micro-electromechanical systems (MEMS), and the study of metal-carbon interface electron transport.
Storage	Store at -20°C .