

Technical Data Sheet

ACS Material Copper Nanowire in Water

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Revision: 032617

1. Preparation Method

Solvothermal Method

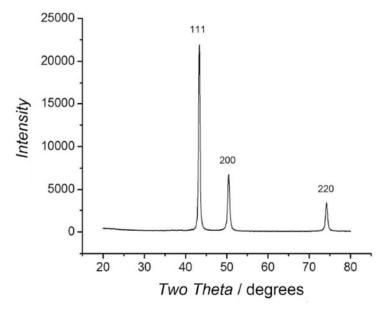
2. Composition/Information on Ingredients

Ingredient	CAS No	Amount
Copper	7440-50-8	~99.0%

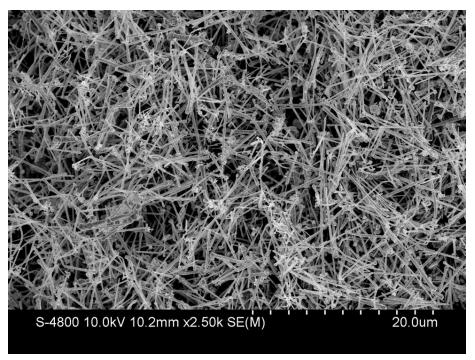
3. Characterizations & Analysis

Key Features of ACS Mateiral Copper Nanowire:

Carrier	Water
Appearance	Red Dispersion
Average diameter	100-200 nm
Length	0.8-6 μm
Purity	≥96.5



XRD of ACS Material Copper Nanowire



SEM Image of ACS Material Copper Nanowire in Water

4. Application Fields

- (1) Additives in polymers;
- (2) Catalysts;
- (3) Electron field emitters for cathode ray lighting elements;
- (4) Flat panel display;
- (5) Gas-discharge tubes in telecom networks;
- (6) Electromagnetic-wave absorption and shielding;
- (7) Energy conversion;
- (8) Lithium-battery anodes;
- (9) Hydrogen storage;
- (10) Nanotube composites (by filling or coating);
- (11) Nanoprobes for STM, AFM, and EFM tips;
- (12) Nanolithography;
- (13) Nanoelectrodes;
- (14) Drug delivery;
- (15) Sensors;
- (16) Reinforcements in composites;
- (17) Supercapacitor.

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