



Technical Data Sheet

ACS Material Silver Nanowire

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1. Products list

Products	Average Diameter/nm	Average Length/ μm	Silver Purity (%)	Concentration (mg/ml)
Agnws-L30	30	100-200	~98	20
Agnws-L50	50	100-200	~98	20
Agnws-L70	70	100-200	~98	20
Agnws-L100	100	100-200	~98	20
Agnws-40	40	20-60	~99.5	20
Agnws-60	60	20-60	~98	20
Agnws-90	90	20-60	~98	20
Agnws-120	120	30-50	~98	20
*Agnw-X23	~23	~13	~99.5	5

Dispersion: In ethanol, isopropyl alcohol, or water.

Concentration: The standard concentration is 20mg/ml, and we can provide this product with a concentration up to 55mg/ml.

* Agnw-X23 is designed for industrial use. PVP is used to prevent aggregation which is about 15wt%.

2. Characterizations

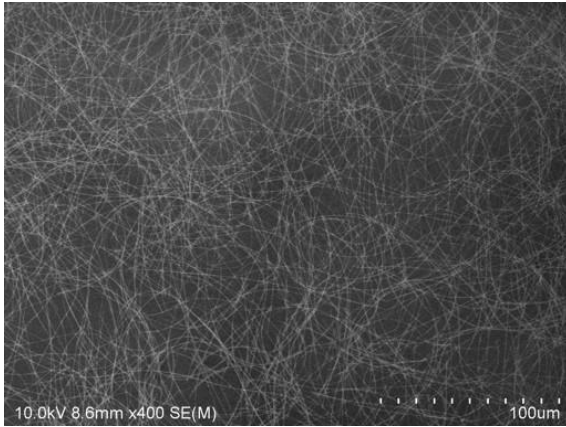
Dispersion solution: De-ionized water, alcohol, isopropanol, normal butanol, or other solution as requested.

Density: 20 mg/ml. (Or other density as requested)

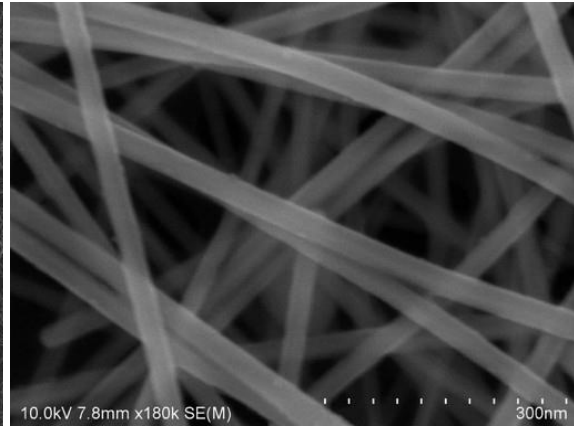
Purity: >99.5 wt%.

Dispersant: <0.5 wt%.

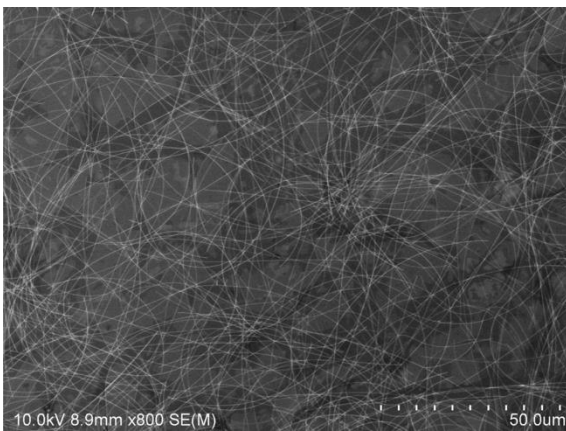
3. Structural Features



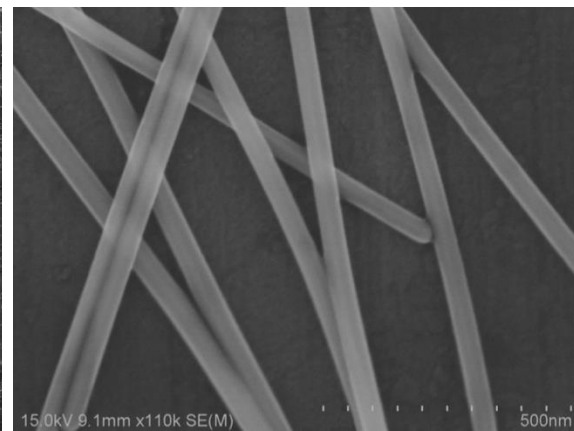
SEM of Agnws-L30



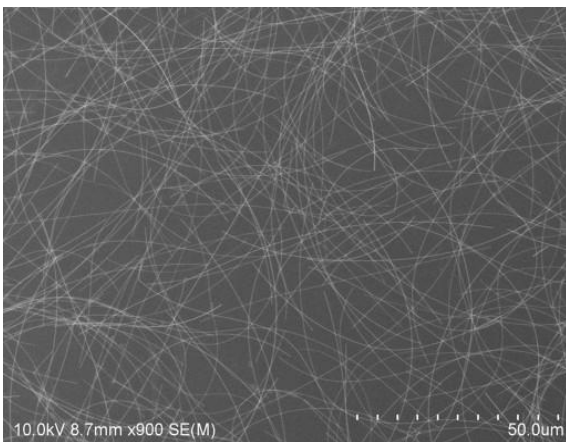
SEM of Agnws-L30



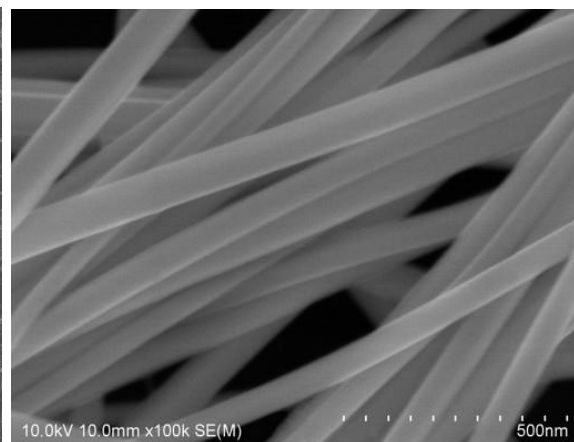
SEM of Agnws-L50



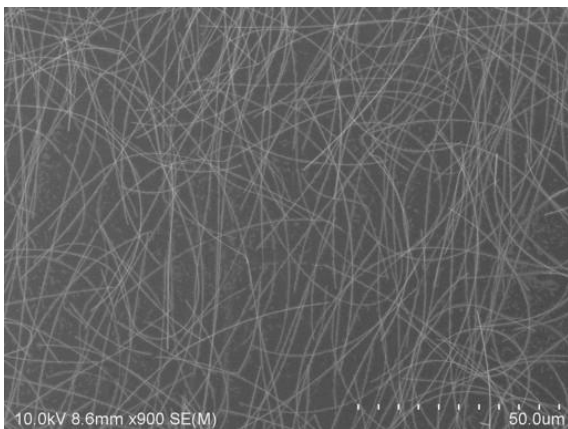
SEM of Agnws-L50



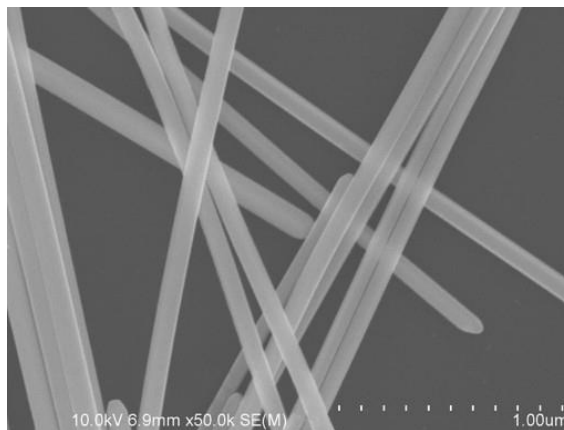
SEM of Agnws-L70



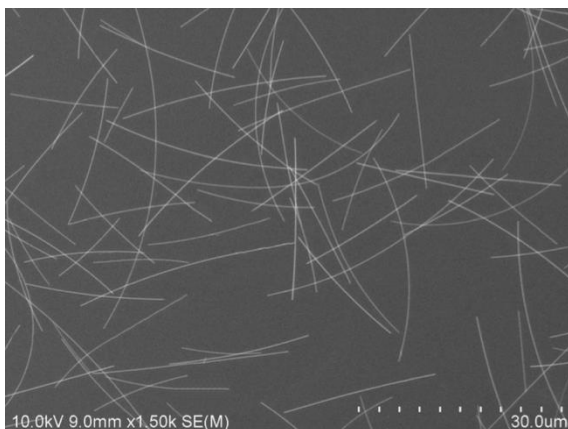
SEM of Agnws-L70



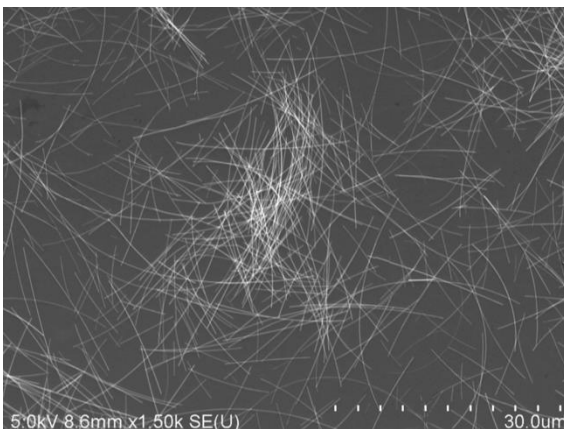
SEM of Agnws-L100



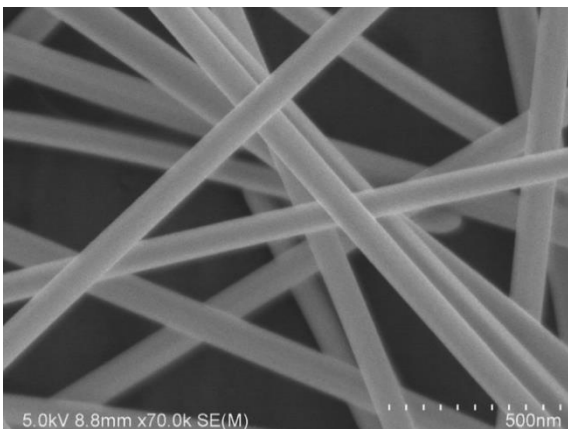
SEM of Agnws-L100



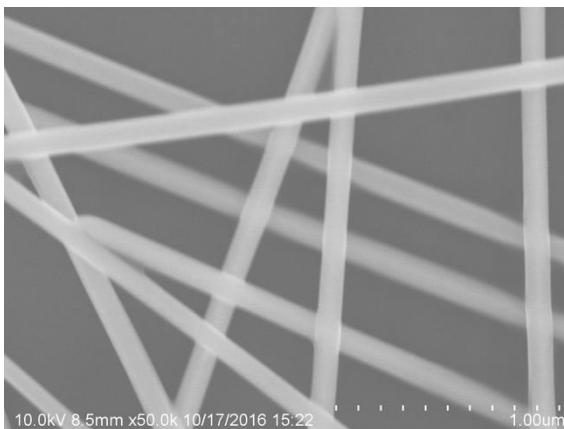
SEM of Agnws-40



SEM of Agnws-60



SEM of Agnws-90



SEM of Agnws-120

4. Applications

Optical Applications: Solar; Medical imaging; Surface enhanced spectroscopy; Optical limiters

Conductive Applications: High-intensity LEDs, Touch screens, Conductive adhesives, Sensors

Anti-microbial Applications: Air & water purification, Bandages, Films, Food preservation, Clothing

Chemical & Thermal: Catalysts, Pastes, Conductive adhesives, Polymers; Chemical vapor sensors

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