



Technical Data Sheet

ACS Material Copper Nanoparticles

Table of Contents

[1 – Preparation Method](#)

[2 – Characterizations](#)

[3 – Application Fields](#)

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1. Preparation Method

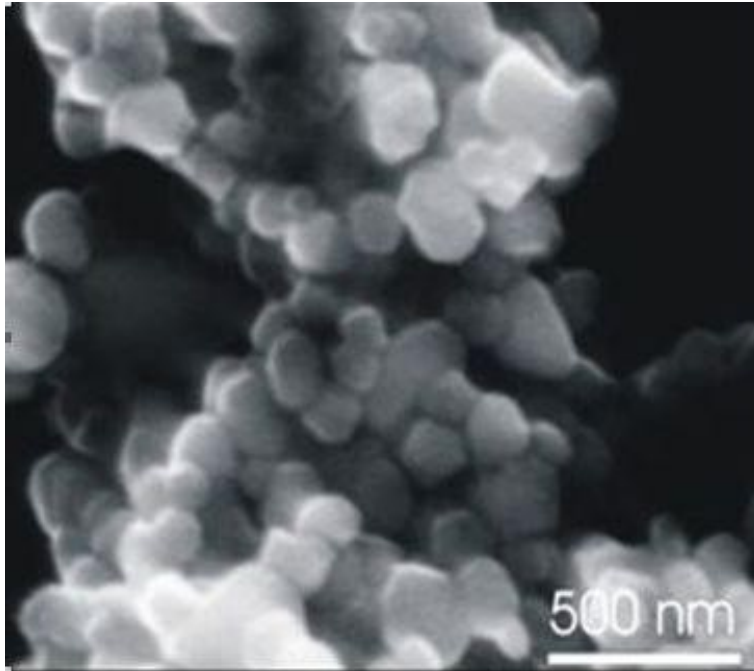
Hydrothermal Method

2. Characterizations

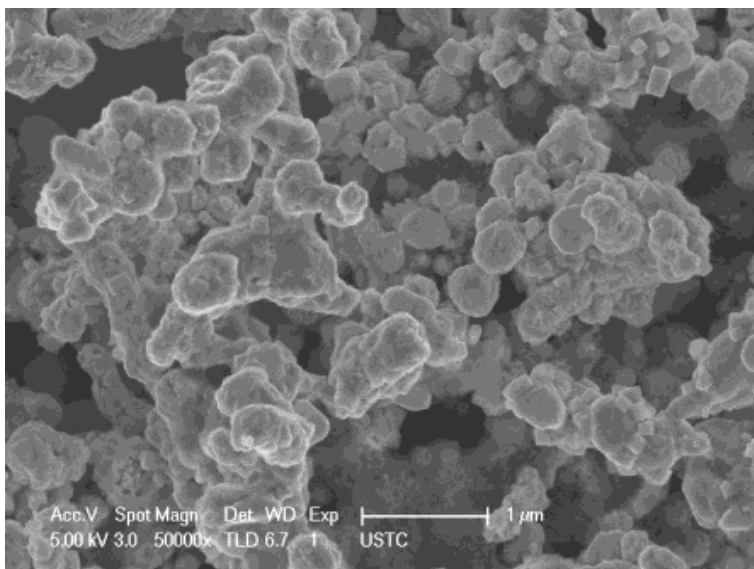
| | |
|--|------------|
| Appearance: | Red Powder |
| Morphology: | Spherical |
| BET surface area (m²/g): | ~ 6 |
| Average Particle Size (nm): | 100 |
| Purity (%): | ≥ 99.5 |
| Bulk density (g/cm³): | 0.8 |
| Theoretic density (g/cm³): | 8.96 |



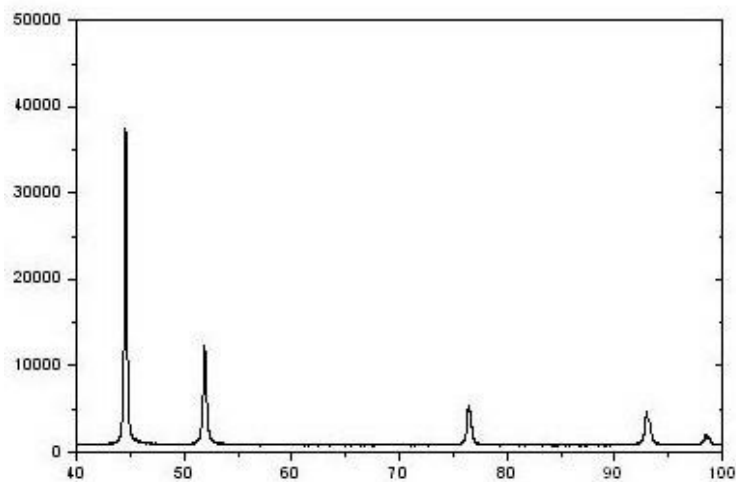
Bulk Photos of ACS Material Copper Nanoparticles



Typical SEM Image of ACS Material Copper Nanoparticles (1)



Typical SEM Image of ACS Material Copper Nanoparticles (2)



Typical XRD Analysis of ACS Material Copper Nanoparticles

3. Application Fields

- 1) Catalysts
- 2) Conductive paste
- 3) Sintering additives
- 4) Medicine and anti-bacteria
- 5) Lubricant additives

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