



# NANOZINO

## Product Information

### Silver Nanoparticles Colloidal Solution

Cat. No.: NZ-AGNP-10-CS

#### Technical Data Sheet

| Properties        | Chemicals/Test Methods | Value        | Unit  |
|-------------------|------------------------|--------------|-------|
| Formula           | Silver                 | Ag           | -     |
| Formula weight    | -                      | 107.86       | g/mol |
| Appearance        | -                      | Solution     | -     |
| Color             | -                      | Black        | -     |
| Particle size     | TEM                    | 10           | nm    |
| Size distribution | DLS                    | 6-35         | nm    |
| $\lambda_{max}$   | Spectrophotometer      | 395-410      | nm    |
| Optical density   | Spectrophotometer      | 1.4          | -     |
| pH                | pH meter               | 7            | -     |
| Purity            | Atomic absorption      | 99.9         | %     |
| Morphology        | TEM                    | Spherical    | -     |
| Dispersant        | Water                  | -            | -     |
| Stabilizer        | Trinatrium citrate     | 1500         | ppm   |
| Prod. Cap./month  | -                      | $\geq 10000$ | Liter |

#### Package:

- 100 mL
- 250 mL
- 500 mL

#### Applications:

- Electronics
- Sensors
- Solar cells
- Biology & Medicine

#### Chemical / Physical Properties:

- High electrical conductivity

#### Safety:

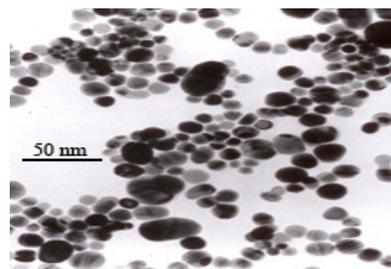
- Keep away from the reach of the children.
- For research & development applications only.
- Wear latex gloves & safety goggles before use.

#### Storage Conditions:

- Keep the bottle in a refrigerator.
- Keep away from direct sunlight.
- Keep away from freezing.

Corresponding Material Safety Data Sheet is available from Zist Shimi Azma Roshd; NANOZINO R&D Co., Product Safety Department, or can be downloaded from our homepage [nanozino.com](http://nanozino.com). We strongly recommend reading carefully the material safety data sheet prior to the use of the product. Contact us for further consultant.

TEM image of AgNP colloidal solution



Size distribution of AgNP colloidal solution

