

Nano silver Colloid

Nano Colloidal Ag

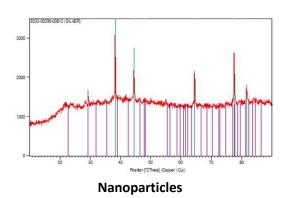
Characterization and Description

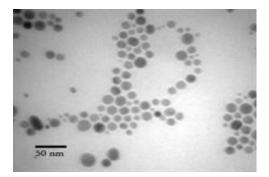
| Product Identification | |
|------------------------|---|
| Product Name | A302 |
| Chemical name | Nano silver colloid |
| Chemical Formula | Ag |
| Intended use | Anti-bacterial and Anti -static Additive |

| Physical / Chemical Properties | |
|--------------------------------|--|
| Physical state | Colloid |
| Properties & Use | Antibacterial |
| Appearance | Transparent-Dark Brown |
| Odor | None |
| Concentration | 4000 ppm |
| Average particle size (APS) | 15 nm |
| Product features | cosmetic material, Medical Materials, textile, coating & resin, plastic |

| Chemical Specification | |
|------------------------|--|
| Solvent | deionized water, Mono ethylene glycol (MEG) |

XRD of the prepared Silver





TEM image of Nano - Silver

Product Information

1.Type: colloid 2.Size: 15 nm 3.Color: Transparent-Dark Brown 4 Specific surface area: $30-50 \frac{m^2}{gr}$ 5.Morphology: Spherical 6.Formula: Ag 7.Concentration: 4000 ppm

Application Categories

- 1. Academic Research
- 2. Chemical R&D
- 3. textile and polymer industrial
- 4. Medical Materials
- 5. Food & Beverage
- 6. Color industry
- 7. Ceramic tile industry





Application

Silver is a known for its antibacterial, antimicrobial and antiinflammatory properties. Coating of metallic silver and its salts are popularly used in medicinal purposes and in medical devices. The larger surface area to volume ratio and greater reactivity of nanosilver are prominently used in modern biomedical applications, drug delivery, textile, food and ceramic industry.

Mixing

Instructions: Depending on your application and industry varies between % 0.5 to % 3 wt.

