

Characterization and Description

Product Identification	
Product Name	A301
Chemical name	Silver Nano Particles
Chemical Formula	Ag
Intended use	Anti-bacterial and Anti -static Additive

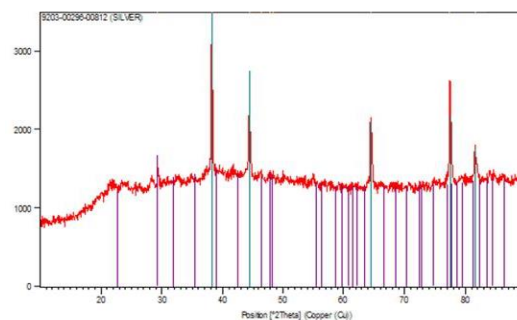
Physical / Chemical Properties	
Physical state	Powder
Properties & Use	Antibacterial
Appearance	Transparent-Dark Brown
Odor	None
Average particle size (APS)	15 nm
Product features	cosmetic material, Medical Materials, textile, coating & resin, plastic

Application

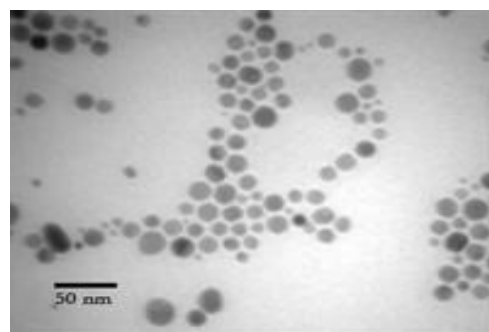
Silver is known for its antibacterial, antimicrobial and anti-inflammatory properties. Coating of metallic silver and its salts are popularly used in medicinal purposes and in medical devices. The larger surface area to volume ratio and greater reactivity of nano-silver are prominently used in modern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

Mixing

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



XRD of the prepared Silver Nanoparticles



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 m^2/gr
- 5.Shape: 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. Ceramic - tile industry
7. Color industry