

Silver Nanoparticles SNP51

Description:

Colloidal silver nanoparticles are produced with concentrations of 1000, 2000, and 4000 ppm and functionalized with PVP.

Characterization

CAS	7440-22-4
Stock No.	SNP511 SNP512 SNP514
Molecular formula	Ag
Molecular weight (g/mol)	107.87
Form	Water base colloid
Color	Olivaceous
Concentration (mg/mL)	1 2 4
Functional group	PVP
Morphology	Spherical
Crystal structure	FCC
Size range (nm)	10-25
Total impurity (%)	N/A



Image of silver nanocolloid
(SNP51)

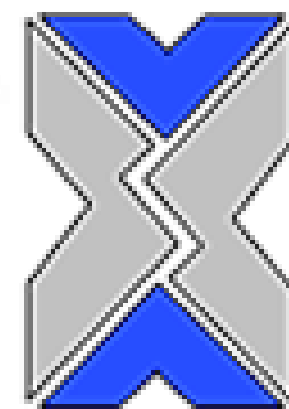
Note: product specifications are subject to amendment and may change over time.

Applications (but not limited to the following):

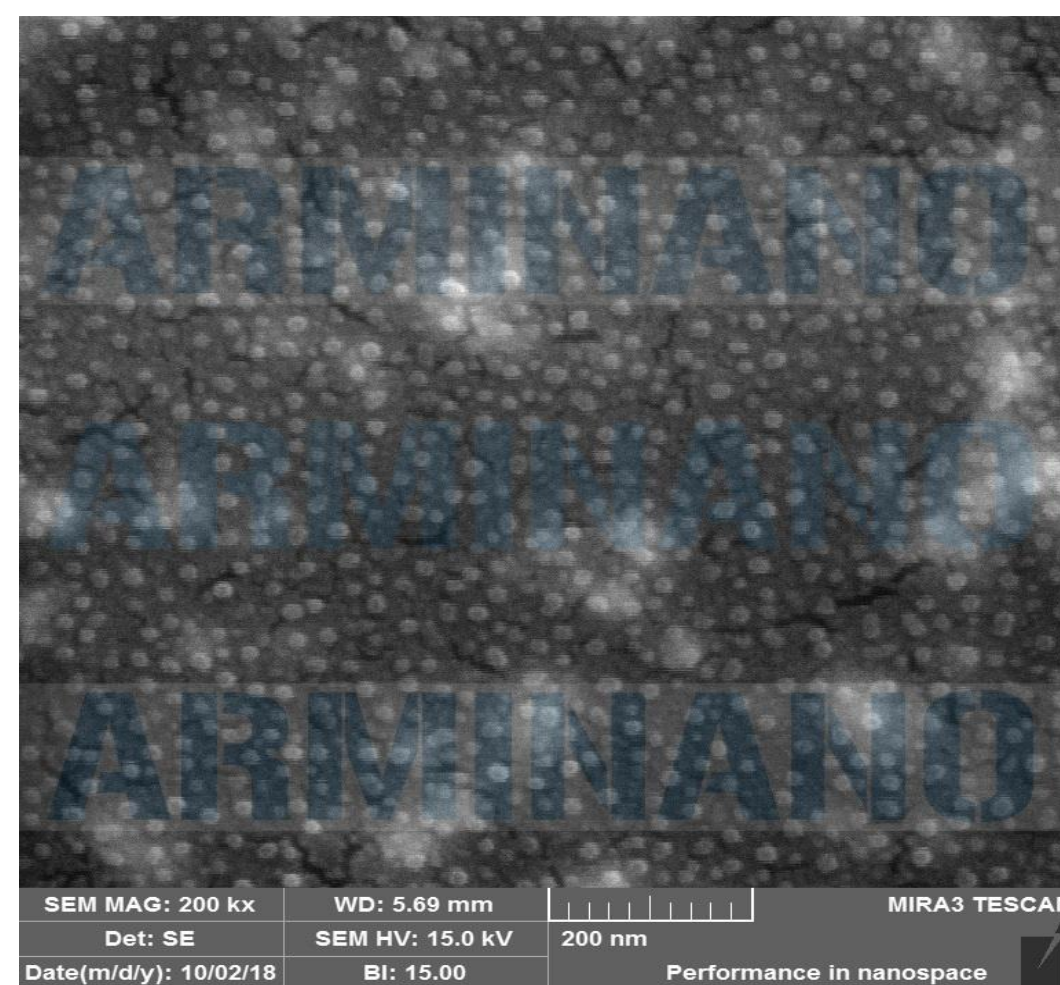
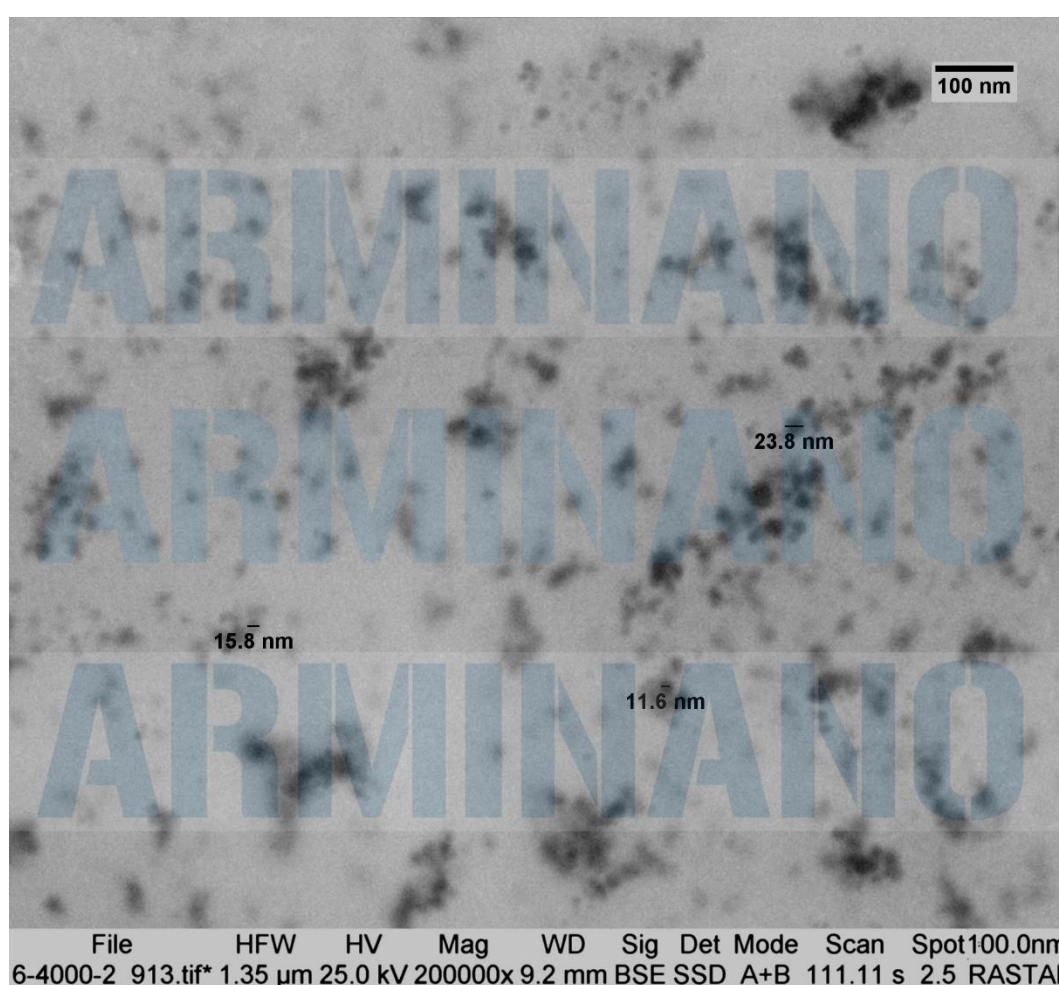
Biosensors, catalysts, chemical sensors, conductive coating, conductive inks, data storage, EMI/RFI shielding, high thermal conductivity materials, medical fields, sterilizer, antibacterial packaging.

Safety:

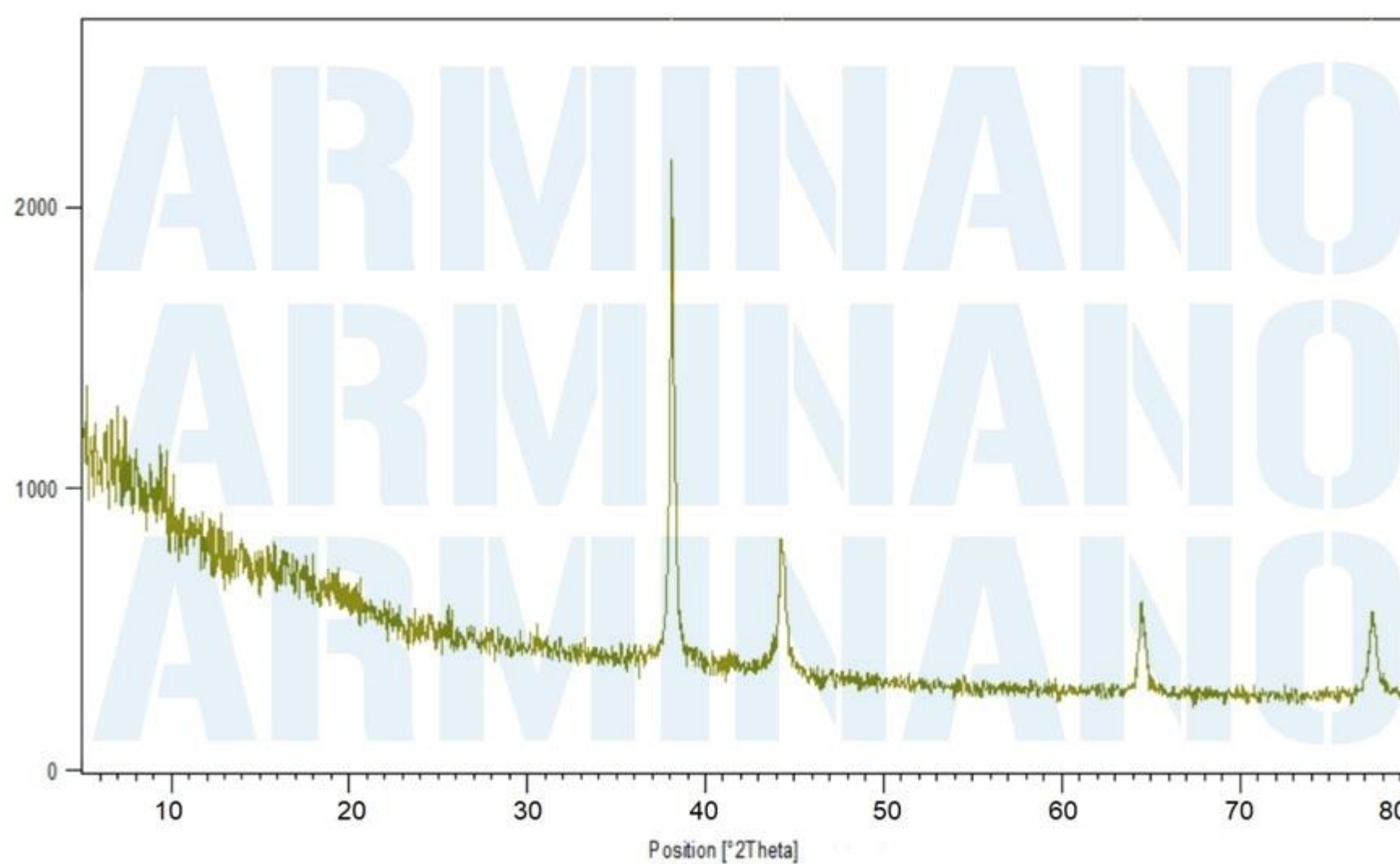
Always use protective gloves and safety glasses.
Wash with soap and water after exposure.
Refer to MSDS prior to handling this material.



Silver Nanoparticles SNP51



SEM images of SNP51



XRD pattern of SNP51

Storage:

Keep it in cool dry place.
Avoid direct sunlight.
Do not freeze.
To disperse sedimented nanoparticles sonication could be used.

Shelf life:

When stored as specified the product is stable for at least 6 months.

