

Silver Nanoparticles SNP51

Description:

Colloidal silver nanoparticles are produced with concentrations of 1000, 2000, 4000 ppm and 6000 ppm which are functionalized with PVP or gelatin.

Characterization

CAS	7440-22-4
Stock No.	SNP514 SNP512
Molecular formula	Ag
Molecular weight (g/mol)	107.87
Form	Water base Or Ethylene Glycol base
Color	Olivaceous
Concentration (mg/mL)	1-6
pH	2.4
Functional group	PVP or Gelatin
Morphology	Spherical
Crystal structure	FCC
Size range (nm)	40-60
Total impurity (%)	N/A



Image of silver Nanocolloid with PVP (SNP514)

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

Applications (but not limited to the following):

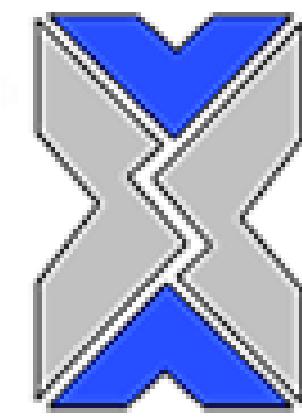
Biosensors, catalysts, chemical sensors, conductive coating, conductive inks, data storage, EMI/RFI shielding, high thermal conductivity materials, medical fields, sterilizer, antibacterial packaging.

Safety:

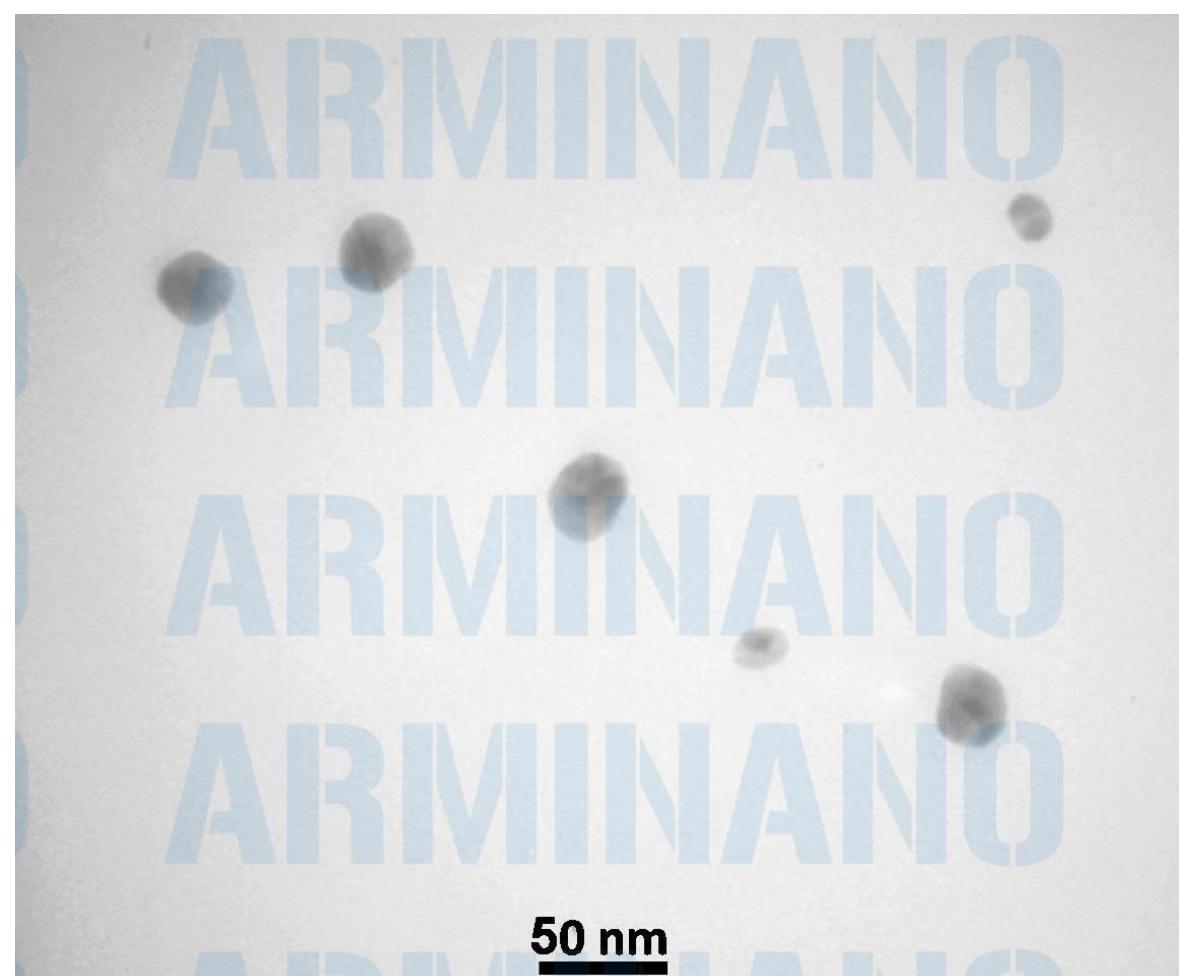
Always use protective gloves and safety glasses.
Wash with soap and water after exposure.
Refer to MSDS prior to handling this material.

ARMINANO

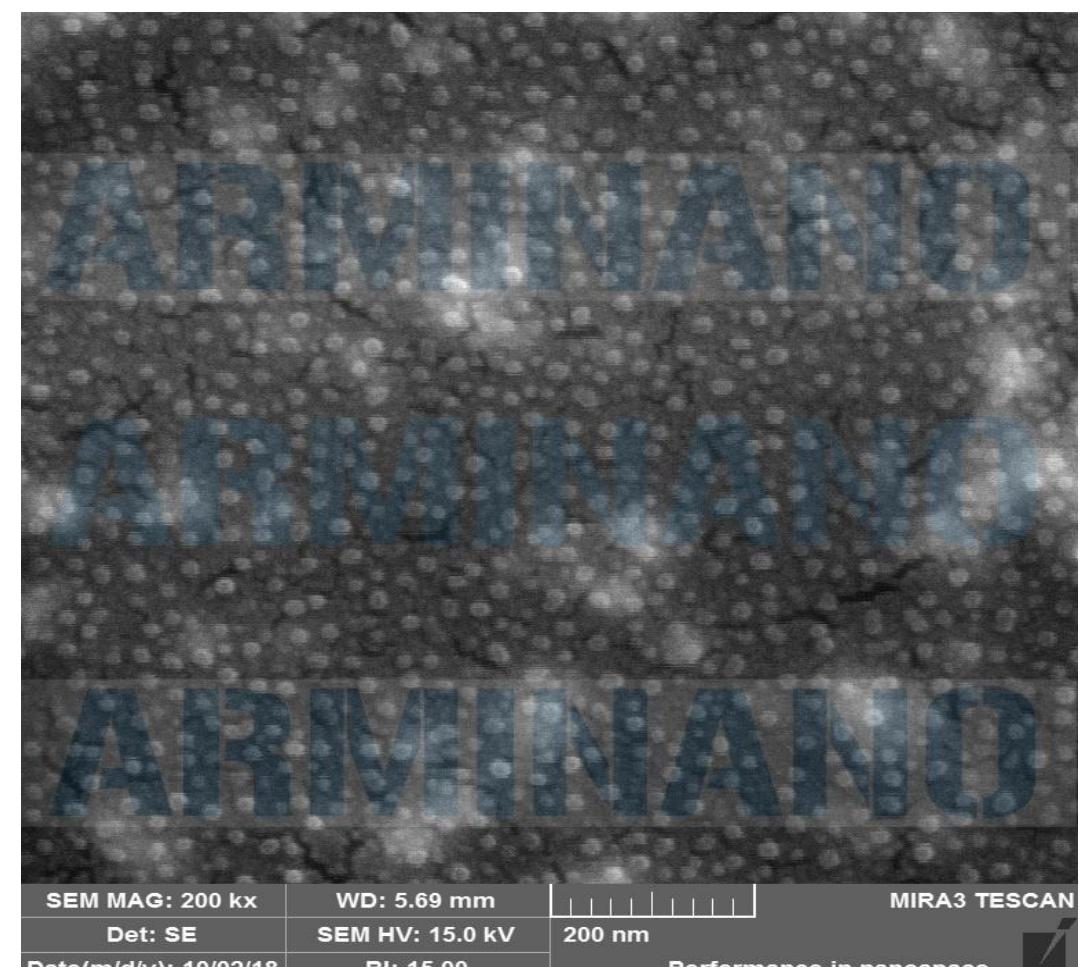
Armina
Engineering Co.



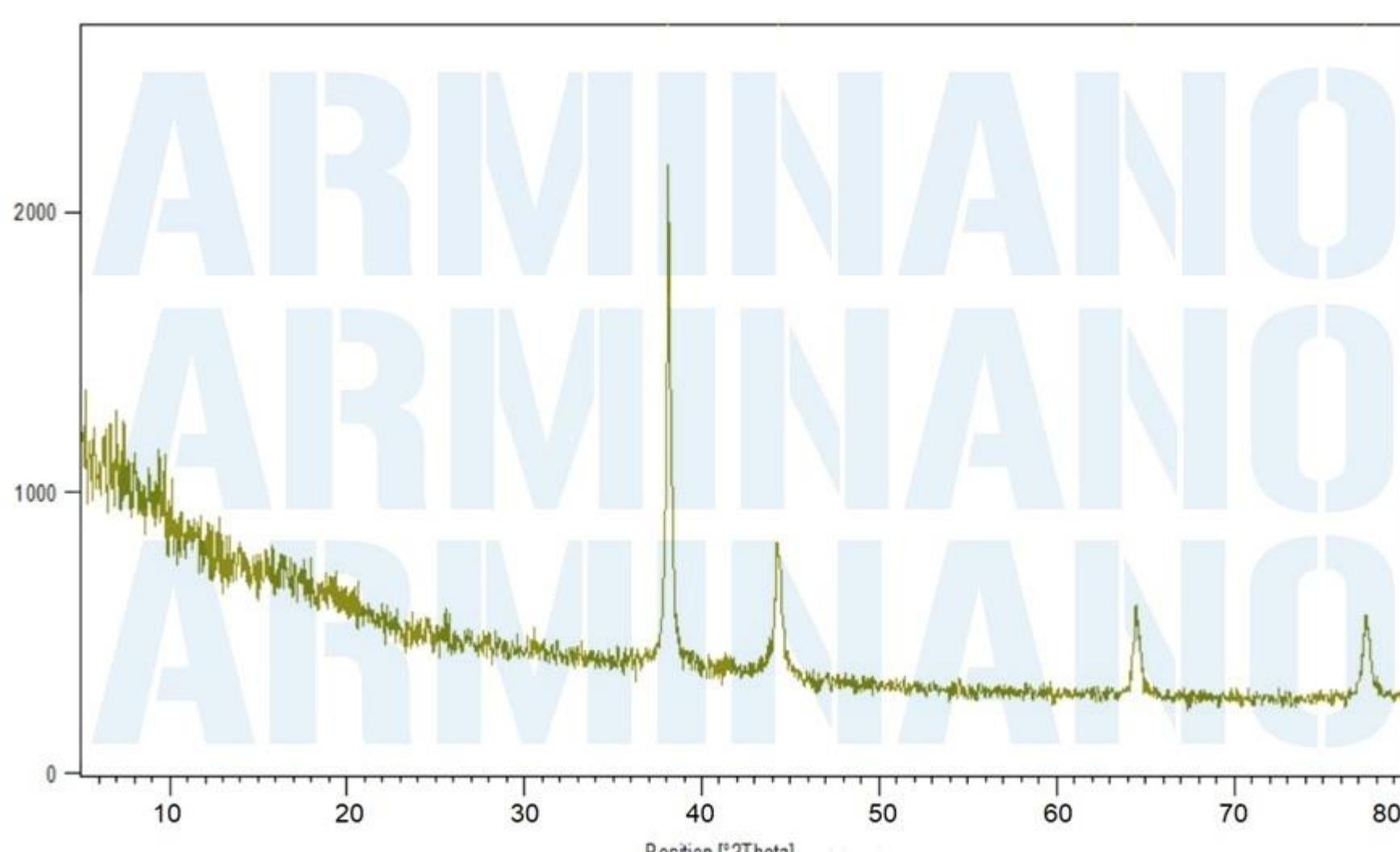
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TEM images of SNP51



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:

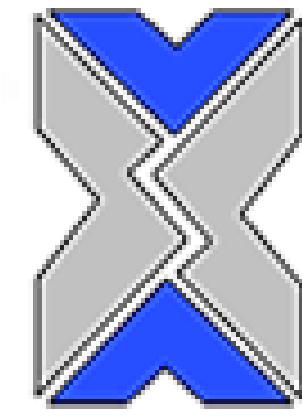
When stored as specified the product is stable for at least 6 months.

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