



amepox
Microelectronics LTD.

NanoSilver Suspension AX 06Hx THE PUREST SILVER NANOPOWDER

- * **SUSPENSION OF POWDER WITH THE HIGHEST PURITY INSIDE FLUID**
- * **AS SMALL SIZE SILVER PARTICLES AS SEVERAL ATOMS DIAMETER**
- * **VERY NARROW PARTICLE SIZE DISTRIBUTION 3 - 8 nm.**
- * **STABLE PROPERTIES AT ROOM TEMPERATURE.**

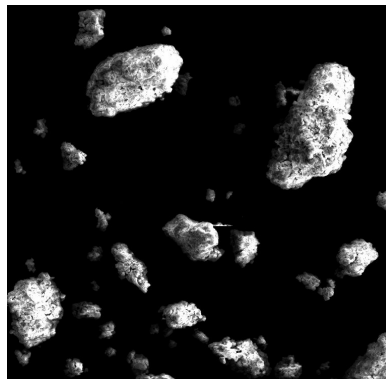
GENERAL DESCRIPTIONS:

NanoSilver Suspension AX 06Hx is very unique type formulation with nanosize silver dispersed in recommended fluid. For the most active nanosilver influence, it's size is as small as possible right now, namely 3 – 8 nm. Fully controlled production process is reason very high repeatability nanosilver product properties.

Such a small particles is very difficult to keeping in dry form with simply agglomeration reason. Than Amepox MC is offering nanosilver as a fluid form in recommended solvent media and in several concentrations up to 10%. For better illustrating this product – look on picture below.



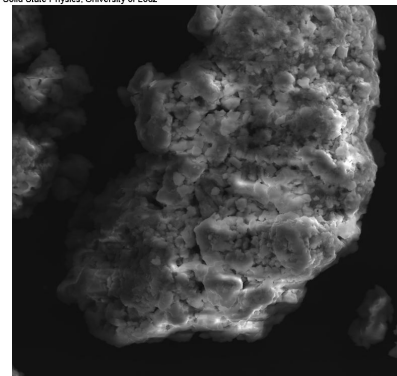
Nanosilver dissolved in n-hexane



*NanoSilver
SEM picture
x 300*

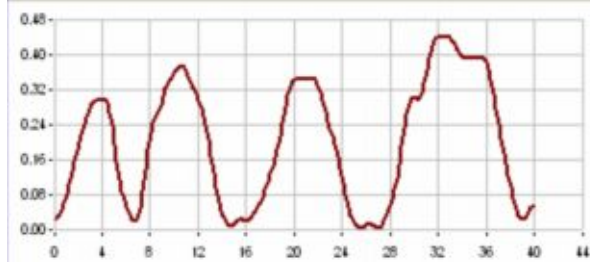
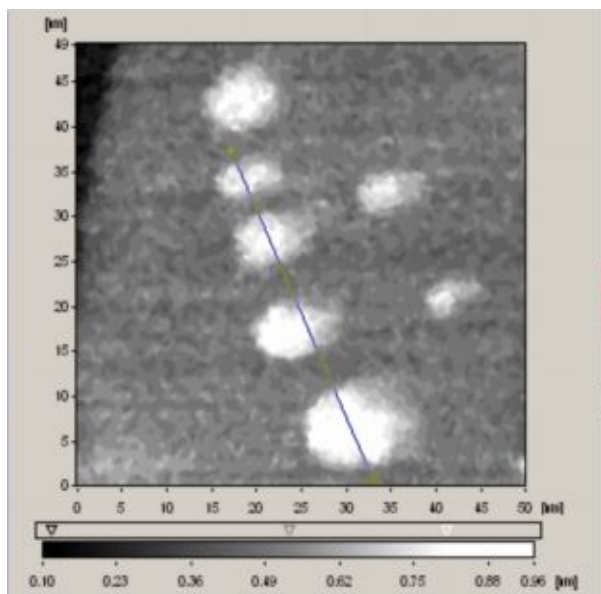
SEM MAG: 300 x DET: SE Detector
HV: 30.0 kV WD: 13.4599 mm 200 µm Vega ©Tescan
VAC: HVac Device: TS5135MM Dept of Solid State Physics, University of Lodz

*Nanosilver
SEM picture
x 1 500*

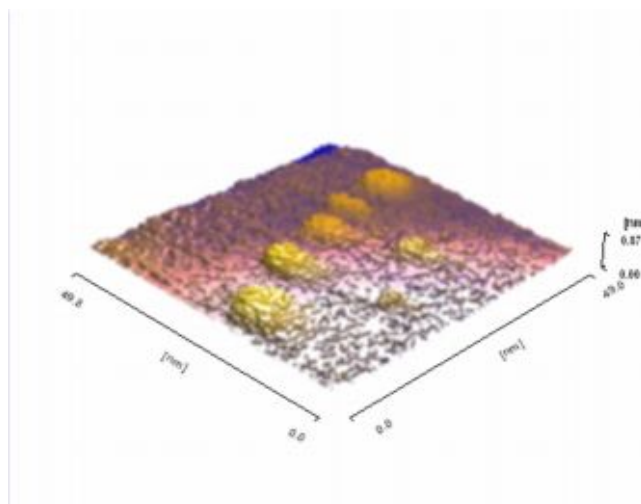


SEM MAG: 1500 x DET: SE Detector
HV: 30.0 kV WD: 13.4186 mm 50 µm Vega ©Tescan
VAC: HVac Device: TS5135MM Dept of Solid State Physics, University of Lodz

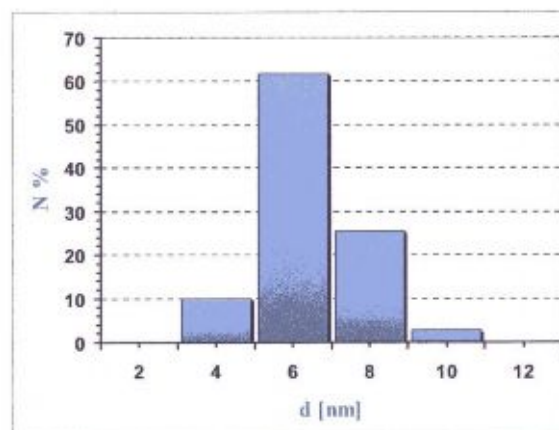
SEM pictures showed, that in dry form separate nanosilver particles very easy sticking together and they are looking like agglomerate mostly. Very accurate tests with using TEM kind of microscope showed real size of Amepox nanosilver particles.



TEM picture with cross-section



3D view



Histogram of nanosilver particles size

SPECIFICATIONS:

Solvent	Recommended fluid – n-hexane
Consistency	Fluid with low viscosity
Color	Dark brown
Concentration	Up to 10%
Silver	Min. 99.99%
Average particle size	3 – 8 nm
Viscosity (Brookfield LVDVII+CP;100rpm; 25°C.)	0.3 ± 0.1 mPas
Specific gravity	0.9 ± 0.3 g/cm ³
Storage	Without limitation with closed container. Freezing is not necessary.



ATTENTION:

1. Material is fully safe in use, but in case of allergic persons wear latex gloves and safety goggles.
2. Store in normal conditions with closed container.
3. Flammable fluid, keep out of heating elements and sparks or fire.