

NOVI nAgO

nano-silver microlines



TECHNICAL DATA SHEET:

Product Description

NOVI nAgO ink is design to produce a highly conductive paths on different substrates like glass, silicon or ceramics. The ink is suitable for aerosol jet printing technology with ultrasonic atomization. It is possible to adjust the properties of the ink to the customer's needs.

Product benefits

- ✓ *No need to use cleanroom*
- ✓ *High flexibility of paths*
- ✓ *Suitable for printing on 3D substrates*

Processing:

materials tested as possible substrates:

Ceramic, Glass, Silicon,

designed for technologies:

aerosol jet printing

important processing parameters:

- instrumentation: aerosol jet printing with ultrasonic atomization
- technical gases: air or nitrogen
- sintering in 300 °C for 30 min or with light source

Composition:

- Functional phase: silver nanoparticles
- Washing solvent: acetone, toluene
- Organic vehicle and solvent

Important joint parameters:

- **Conductivity:** $\sim 10^7$ S/m
- **Thickness of the layer after drying:** 0,1-2 μ m
- **Line width after drying:** ~ 50 μ m

Storage and shelf life:

Tightly sealed containers should be stored in a dry room, at room temperature, away from sources of fire. Shelf life for pastes in unopened containers is 6 months from the date of production. Sedimentation symptoms may appear; Before use please stir the ink thoroughly and despair is ultrasonic homogenization for 15s.



For details, contact:

NovelInks Sp. z o.o.

sales@novelinks.pl

Boboli St. 8 / 142, 02-525 Warsaw, POLAND