

# NOVI nAg100

## nano-silver conductive paths



### TECHNICAL DATA SHEET:

### Product Description

NOVI nano-silver conductive paths paste is designed for screen printing on rigid and flexible substrates. It can be used for preparing paths for high power electronics. It is possible to adjust the properties of the paste to the customer's needs.

### Product benefits

- ✓ *Good electrical conductivity*
- ✓ *High thermal conductivity*
- ✓ *Good adhesion*
- ✓ *Excellent for high power electronics*

### Processing:

materials tested as possible substrates:

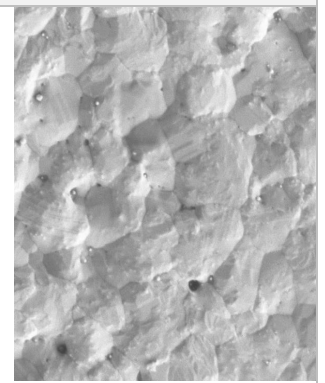
Silica, Aluminum, Copper, Glass, Kapton foil,

designed for technologies:

*screen printing*

important processing parameters:

- instrumentation: manual or semiautomatic screen printing
- types of sieves: steel or polyester, 200 - 250 mesh,
- sintering in 250 °C



### Composition:

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

### Important joint parameters:

- **Sheet resistance:** 10-15  $\Omega/\square$
- **Viscosity (shear rate: 200  $s^{-1}$ ):** 13-20 Pas
- **Thickness of the layer after sintering:** :10-15 $\mu m$
- **Layer work temperature:** 600 °C

### 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; stir the paste thoroughly before use.



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