

NOVI AB GNP

Antibacterial graphene ink



TECHNICAL DATA SHEET:

Product Description

NOVI antibacterial, conductive graphene ink is designed for ink-jet printing and may be used for production of paths on rigid and flexible substrates.. It may be employed for conductors, resistors, biochemicals sensors.

Product benefits

- ✓ *High flexibility*
- ✓ *Antibacterial properties*
- ✓ *Drying at low temperatures*
- ✓ *Fast drying time*

Processing:

materials tested as possible substrates:

Glass, Kapton foil, Polyester

designed for technologies:

ink-jet printing

important processing parameters:

- instrumentation: DOD ink-jet printer
- nozzle diameter: $\geq 50 \mu\text{m}$
- drying time: chamber drier, 120°C for 20-30 min

Composition:

- Functional phase: graphene nanoplatelets
- Washing solvent: acetone
- Organic vehicle and solvent

Important joint parameters:

- Sheet resistance: $0,5 \div 1 \text{k}\Omega/\square$
- Viscosity (shear rate: 200s^{-1}): $1-10 \text{ mPas}$
- Thickness of the layer after sintering: $1-7 \mu\text{m}$

Storage and shelf life:

The ink should be thoroughly mixed before use in ultrasonic bath for 10 minutes. Should be stored in a clean, environment at room temperature ($<25^\circ\text{C}$). Shelf life of material in unopened containers is 6 months from date of shipment. Sedimentation symptoms may appear; stir the ink (in a mechanical way, or in an ultrasonic bath) thoroughly before use.



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