

## Conductive graphene paste

**TECHNICAL DATA SHEET:****Product Description**

NOVI GNP conductive paste is designed for screen printing conductive polymer layers on rigid and flexible substrates. It can be used to produce conductive paths, electrodes, organic elements of field effect transistors or photovoltaic systems. **It is excellent product for chemical and biochemical sensors.** It is possible to adjust the properties of the paste to the customer's needs.

**Product benefits**

- ✓ *Good electrical conductivity*
- ✓ *High flexibility of layers*
- ✓ *Good adhesion*
- ✓ *Excellent for voltammetric measurements*

**Processing:**

materials tested as possible substrates:

Glass, PET foil, 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, drying time: chamber drier, 120 ° C for 60 min

**Composition:**

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

**Important joint parameters:**

- **Sheet resistance: 15-40  $\Omega/\square$**
- **Viscosity (shear rate: 200  $s^{-1}$ ): 13-20 Pas**
- **Thickness of the layer after sintering: : 8-15  $\mu m$**

**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; stir the paste thoroughly before use.