AD- WGP30

GRAPHENE WATER BASED CONDUCTIVE INK

WGP-30 is revolutionary water-based graphene conductive ink. Harnessing the power of graphene, WPG-30 opens new horizons in electronics and beyond. Graphene are thin, two-dimensional carbon structures with exceptional electrical conductivity and mechanical strength. Our ink empowers innovators to create flexible circuits, sensors, and electronic devices with high conductivity, durability, and environmental friendliness. Experience the future of conductivity with Adnano's water-based Ink.

TECHNICAL PARAMETER

AD-WGP30	Description
Sheet Resistance	50 Ω /sq per 10 µm
Percentage of solid loading	5 %
Color	Grayish Black
Viscosity	>3500 cp
Solvent	Water
CAS NO.	7782-42-5
Curing/sintering Temperature	100 degree for 1 minutes 80 degree for 5 minutes

Adnano Technologies Private Limited

APPLICATIONS

- Printed Electronics
- Smart Textiles
- Conductive Fabrics
- Printed Heating
- Energy Efficient Space Heating
- Automotive

FEATURES AND ADVATANGES OF WGP-30

Advancements In Conductivity

Water-based graphene ink technology has improved their electrical conductivity, making them competitive with solvent-based inks in terms of performance.

Environmental Friendliness

Do not release volatile organic compounds (VOCs) during the drying process, making them more environmentally friendly. This helps reduce air pollution and potential health hazards associated with solvent-based inks.

Safety and Health Benefits

Are non-flammable and generally safer to handle than solvent-based inks, which can be flammable and require proper ventilation.

Compatibility with a Wide Range of Substrates

Are compatible with a broader range of substrates, including paper, cardboard, some plastics, and flexible substrates. This versatility allows for more diverse applications.

Reduced Risk of Substrate Damage

It can potentially damage or degrade certain substrates due to the presence of organic solvents. Water-based inks are less likely to cause substrate damage.

Lower Production Costs:

It is often more cost-effective compared to solvent-based inks due to lower material costs and reduced safety measures required for handling and storage.

Ease of Disposal

It can potentially damage or degrade certain substrates due to the presence of organic solvents. Water-based inks are less likely to cause substrate damage.

Improved Print Quality and Resolution

It tends to produce sharper and more precise prints with better resolution, making them suitable for applications requiring fine details and high-quality graphics.

Ease of Cleanup

Are easier to clean up with water, reducing the need for strong solvents or specialized cleaning agents.