

MF-GRP-01



MEMS TEKNOLOJİ SANAYİ TİCARET A.Ş.



MF-GRP-01 Graphene Ink is a cutting-edge solution designed for screen printing applications. This innovative ink is well-suited for a diverse range of industries, including medical technology, wearable electronics, and smart textiles. Key applications include the fabrication of medical electrodes and sensors, and the creation of electrical connections for devices integrated into fabric substrates. The ink exhibits low-temperature curing properties, requiring a temperature of 110°C in a convection oven for a period of 30 to 45 minutes.

Features:

- It offers high performance without the need for additional reduction processes. This saves time and cost in your production processes.
- After the curing process, the material contains a high percentage of graphene. This gives your product superior electrical, thermal and mechanical properties.
- It consists of several layers of graphene.
- Ideal for screen printing methods. If thinned, it can also be used with other methods such as dip coating and syringe dispensing.

MF-GRP-01 Ink

Solid content	~10%
Particle size	< 2 micron
Sheet resistance	2,500 Ω/□
Substrate compatibility	Textile

Usage:

It is essential that the ink is thoroughly mixed before use to obtain a homogeneous mixture. The mixing process should be carried out slowly to avoid the formation of air bubbles. To ensure optimal performance, the ink must be degassed prior to use. This can be achieved through ultrasonication for a duration of 20 minutes. To prevent contamination, used ink should not be returned to the original container. If necessary, the viscosity of the ink can be adjusted with distilled water.

Safety and Handling:

It is essential to ensure adequate ventilation when using this product. To avoid any potential hazards, the product should be kept away from sparks and open flame sources. Prolonged contact with skin should be avoided, and inhalation of vapors should be prevented. In case of contact with the product before curing process, the skin should be washed with plenty of water and soap.

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Please contact for further information on MF-GRP-01 and to discuss your specific application.

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SEM, TEM and Raman Analysis

