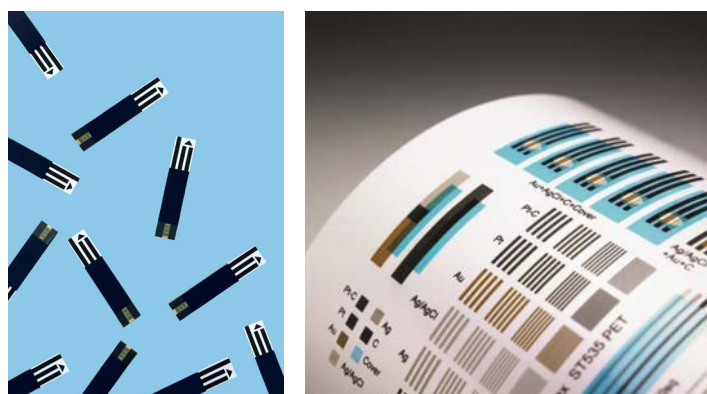
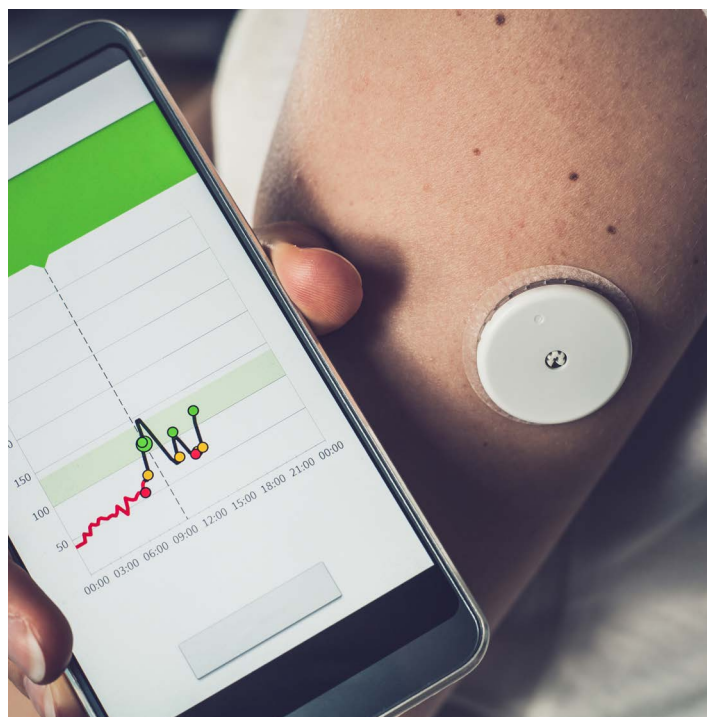


Screen Printable Electrode Inks and Pastes for Biosensor Applications

Micromax™ continues to expand its range of screen printable inks utilizing various metallurgies for use in bio and other types of sensors. These materials enable the production of reliable, consistent, and high-quality electrochemical electrodes used in medical monitoring, diagnostics, drug delivery, and food and environmental sensors.

Applications:

- Enzyme-based amperometric biosensors for metabolic analyte testing (e.g., blood glucose, cholesterol, lactate)
- Potentiometric sensors for selective ion detection of body electrolytes
- ECG electrodes
- Microfluidic and chip designs for drug screening and DNA sequencing
- Trace/heavy metal and food freshness sensors
- Immunoassay sensors based on electrochemistry
- ELISA platform
- Stretchable and washable electrodes for wearables



Critical Advantages:

- Quickly established stable electrode performance
- High-volume capability with exceptional lot to lot consistency
- High levels of manufacturing controls for bio applications
- Excellent technical capability with over 50 years of innovation experience

From Silver/Silver Chloride conductors to stretchable carbon pastes, the Micromax™ product portfolio carries a wide variety of conductive inks for biosensor applications. Unsure which product to choose or need more information about how to collaborate on your next biosensor project? Contact us! We would be happy to assist you in your selection.

Micromax™ Biosensor Selector Guide

Composition	Product	Application
Carbon	BQ221, BQ242, BQ226	Working and counter electrodes, reference electrodes, lines, tracks, and pads
Carbon	PE671, PE672	Stretchable, washable resistor/overprint for wearable sensors
Ag	5000	Medical electrodes and biosensors, high abrasion resistance, long screen life
Ag	5025	High temperature use, fast drying for biosensors, Iontophoretic drug delivery, and PTF sensors
Ag	5028	High electrical conductivity, compatible with polycarbonate, signal lines and sensor pads for biosensors, Iontophoretic, and PTF sensors
Ag	5065	High conductivity for biosensors and PTF sensors
Ag	PE874, PE876	Stretchable, washable conductor for signal transfer for wearable sensors
Ag/AgCl	5874	68:32 Ratio reference electrodes
Ag/AgCl	5876	32:68 Ratio reference electrodes
Ag/AgCl	5881	75:25 Ratio reference electrodes
Au	BQ331	High sensitivity inert electrode and immobilization surface
Pt	BQ321	High activity electrode
Pt/C	7112	Lower cost highly active electrode
Dielectric	5036, 5018, BQ10	Insulation and protective layer
Encapsulant	PE773	Stretchable encapsulant for wearable applications

Source: DuPont

Micromax™ is a leading brand of printable, stretchable, and moldable functional thick film inks, pastes and ceramic tapes. Micromax™ brand products are utilized for circuitry, interconnection and packaging of electronic devices in automotive, passive components, telecom, consumer electronics, healthcare and military applications featuring properties such as enhanced circuit density, improved thermal management, higher reliability and other critical functionality. Micromax™ represents over 60 years of experience in the development, manufacture and sale of specialized electronic materials, and offers leading global customer support and product quality and consistency.

<https://www.mobility-materials.com/brands/micromax.html>



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