



Biosensor solutions for Point of Care diagnostics

Large volume cost effective transducer material for electrochemical sensors

An aging population, a prevalence of infectious and chronic diseases and a desire to reduce healthcare costs have led to a need for Point of Care diagnostics.

Customizable solutions based on customer requirements

In response to this need, a team of Linxens scientists, specialized in Electrochemistry and Materials, has developed a transducer material to perform electrochemical measurement on chemical substances including blood, urine, milk, or water.

The pattern and thickness of each metal layer can be entirely customized to the customers' electrodes and optimized for their bio-receptors.

Linxens' strips are designed to quickly replace any existing strips.

Greater accuracy requiring less chemical substance

A copper layer laminated on different PET base substrates ensures very high conductivity providing low resistance (few m Ω) needed for greater accuracy, faster measurement while requiring less chemical substance.

An extremely accurate electrochemical etching process allows the electrode pattern to be created in a very repetitive way to achieve high reproducibility from batch to batch and improve the accuracy of the measurement of the chemical substance.

Expertise, Competitiveness, Mass Production

The Linxens expertise in additive metal layer deposition, including selective gold electro plating on top of copper, gives a highly stable, fully covered active area, repetitive conductive layer, which also leads to a reduction in the use of expensive noble material.

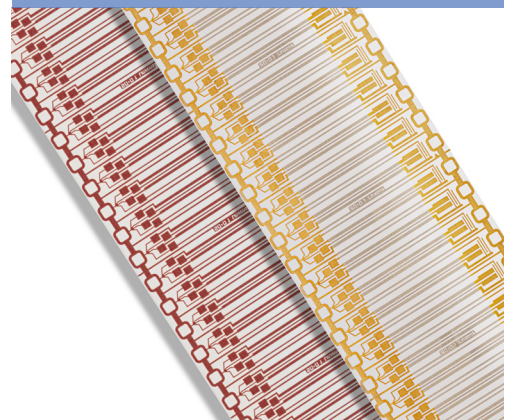
Linxens' production sites are set-up for mass volume, high quality, component manufacturing in reel-to-reel format. Our product can be delivered directly in reel- to-reel or panels for bio-receptor deposition.

Contact Linxens for your tailored-made solution

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Overview

Materials

- PET: 150/200/250/350 μ m
- Copper: 18 μ m
- Nickel Plating: 1,5 to 4 μ m
- Gold Plating: 10 to 50nm in selective plating area
- Gold Tolerance: \pm 0.005mm

Specifications

- Reel-to-reel or panel format

International Standards

- ISO 15197: 2013
- ISO 13485

Application Areas

- Blood analysis
- Glucose Monitoring
- Electro chemical measurement
- Lab on chip
- Microfluidics
- Point of Care diagnostics