

# Diagnostics

## Accurate, Consistent, Reliable.

Lohmann formulate, manufacture, coat and die-cut adhesive solutions that have been used as component parts of clinical and point of care diagnostic products for over 20 years. By meeting the specialty demands of the Diagnostics market, such as biocompatibility, sterilisable and long-term wear while adhering to very tight process tolerances, Lohmann has become a trusted partner. Whether a custom design or standard product, Lohmann can provide innovative products that are precise, stable, non-reactive and suitable for long-term wear.



### Test Strips

For the user, test strips must be accurate, consistent and easy to use. To ensure this, adhesive materials must be defect-free, inert and manufactured to within very tight tolerances.

Lohmann can formulate adhesives to be multifunctional, exhibiting properties such as optically clear, hydrophilic or electrically conductive.

### Molecular Diagnostics

Whether the application requires a barrier against evaporation or cross contamination during analysis, a covered yet breathable environment, low birefringence and auto fluorescence, optical clarity, light occlusive or allowing samples to be stored safely at low temperatures, the demands on adhesive tapes are many.

Adhesive tapes supplied by Lohmann can be designed to meet one or a number of these application requirements. They can be supplied in rolls, for automated processing, or die-cut with additional features incorporated.

### Test Meters

Robust and reliable, test meters must perform functionally and aesthetically.

Lohmann's non-outgassing assembly adhesives can provide many functions, including sealing and cushioning. They allow a very thin bond line and are suitable for high-speed volume manufacturing lines.

### Wearable Sensors & Device Fixation

Through Bluetooth and Wi-Fi interfaces, portable readers such as Smartphones are enabling consumers and medical practitioners to get real-time accurate and comprehensive data directly from the body. Wearable sensors and devices fixed directly onto the body are replacing conventional tests at an increasing rate.

Lohmann offers adhesive solutions and die-cut parts that provide a number of key benefits including: long term skin wear of up to 14 days; highly flexible; breathable; water-resistance and printable.

### Lab-on-Chip

Uniting state-of-the-art electronics and chemistry to provide diagnosis and prognosis in a portable cost effective platform presents a demanding challenge for adhesives.

Lohmann combines its knowledge of adhesive development and raw materials with its comprehensive die-cutting capability to support manufacturers of lab-on-chip devices to develop and enhance their products with ever increasing functionality and performance.



## Lohmann, The Bonding Engineers

### Integrated innovative solutions.

As a world-leader in the development, manufacture and supply of adhesive tape solutions, Lohmann is a trusted partner for the design, scale-up and commercialisation of your medical device.

Our "local for local" approach together with a fully integrated supply chain gives Lohmann a truly unique position and one which our customers appreciate as real added value to their business.

At Lohmann we have an in-depth knowledge and capability in many chemistry platforms, including Acrylic, Synthetic Rubber, Silicone, Cyanoacrylate, Epoxy and Polyurethane. Our experience in coating solvent, water-based, hot-melt and multi-component reactive systems ensures that we are never restricted in our ability to develop and deliver customers with the best solution for their application.

By choosing Lohmann as their partner our customers have access to a highly specialised, experienced and effective Medical team who together with the Lohmann organisation can offer:

- a dedicated project management team
- experience of sourcing, developing and processing high-value functional materials
- a broad die-cutting capability including roll-to-roll flat-bed, rotary, pick-and-place and laser-on-the-fly
- expert in-house testing equipment and test method development
- product development and validation processes tailored to customers requirements
- to supply small quantities to support scale-up
- robust, well documented, traceable and fully auditable processes in accordance with EN ISO 13485 Quality Management System.

We look forward to receiving your challenge!

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