

Saral Inks® for Printed Electronics - An Application-Based Journey -

Fuel Innovation in
Emerging Electronics Markets

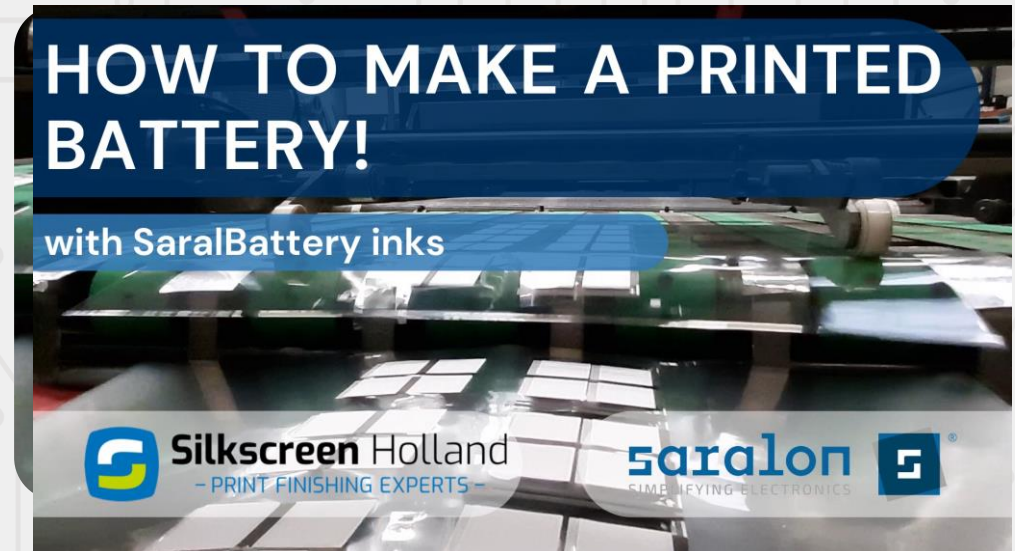
Saralon's InkTech Approach

Functional Inks



+

Production Know-how



Ink & Production Technology for Sustainable Electronics

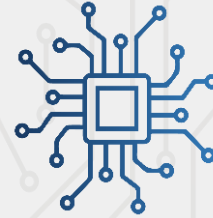
Outlines



**Saral Inks© for
Stretchable Electronics**



**Saral Inks© for IME
- In Mold Electronics**



**Saral Inks© for
Printed Sensors**



**Saral Inks© for
Heating Elements**



**Sustainability
and Innovation**

Stretching Boundaries

Conductive Inks for Stretchable Electronics

Key Application Areas



Smart Textiles



Medical Diagnosis & Paper Test Strips



Health Monitoring Wearables



Automotive Interiors

Saral Inks® Solutions

Stretchable Conductive Inks

- Thermoformable
- Easily Disposable
- Screen Printable
- For Paper, Textile, TPU & Other Plastics



Seamless Integration

Conductive Inks for 3D IME Applications

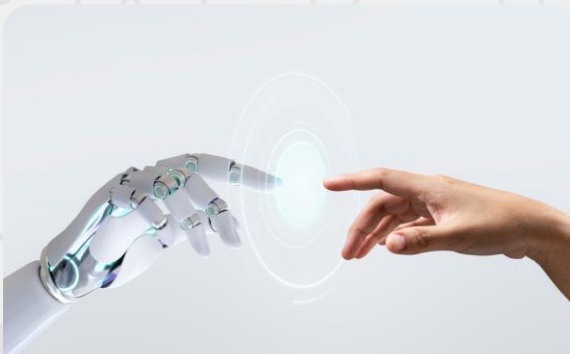
Key Application Areas



Smart Home



Human-Machine Interfaces (HMI)



Soft Robotics



Automotive Interiors

Saral Inks® Solutions

Conductive Silver & Copper Inks

- Thermoformable
- Air Curable
- Water Based
- Sustainable



Sensing the Future

Functional Inks for Printed Sensors

Key Application Areas



Sports, Wellness & Healthcare



Automotive Sensing & Battery Monitoring



Smart Packaging

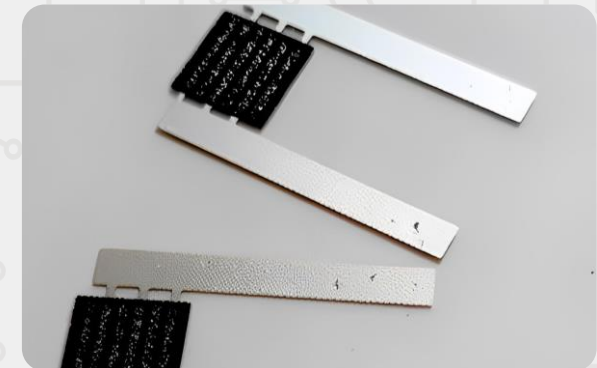


Smart Buildings

Saral Inks® Solutions

Printed Sensor Inks

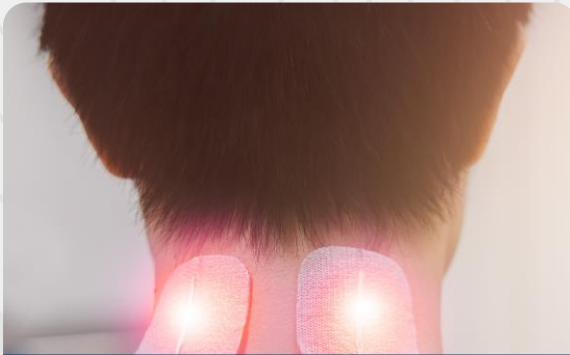
- Screen Printable
- Temperature Sensor: 20-60 °C
- Humidity Sensor: 30-90 % RH
- Pressure Sensor: Piezo Resistive



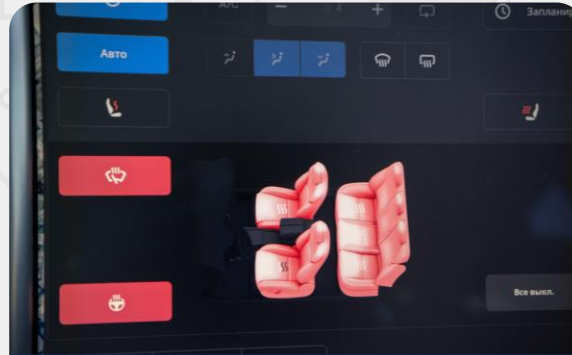
Heating Innovations

Functional Inks for Flexible Heating Elements

Key Application Areas



Medical Pads



EV Interior Heating



EV Battery Management

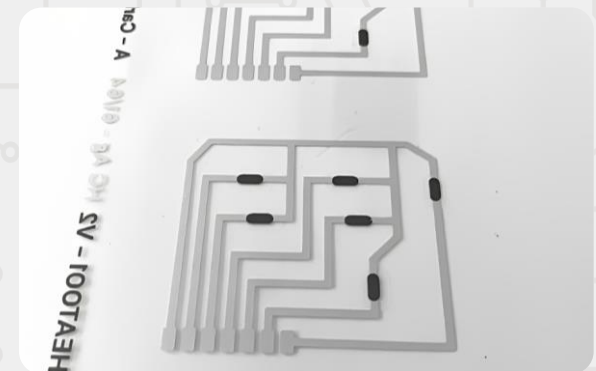


Sports & Activewear

Saral Inks® Solutions

Heating Element Ink

- Moisture Stable Resistor
- Printed Heater: $<100\text{ }^{\circ}\text{C}$



Sustainability at Core

Redefining Electronics Industry

Conventional Technologies



Harmful Chemicals

PCB circuits are produced using toxic chemicals.



Difficult to Recycle

Lengthy disposal process as hazardous waste.



High Environmental Impact

Production mostly under poor environmental standards.



Hazardous Waste

Etching processes produce toxic waste.



No Flexibility

Limited customization and conventionally solid electronics.

Saralon's InkTech



No Toxic Chemicals

All Saral inks are free from toxic and harmful chemicals.



Easily Recyclable

With InkTech, electronics are produced on paper or plastic.



Lower Carbon Emission

Fewer print cycles with lower carbon emissions.



Low Waste During Production

Layers are printed only in designated spots.



Full Customizing

Design freedom and flexible electronics.

Partner with Saralon Unlock Your Innovative Potential

1. Saral Inks®

- Screen-printable functional inks for Printed Electronics

2. InkTech

- Process knowhow and production technology transfer

3. Printegration

- Compatible ink sets for leading edge high-demand applications

4. Easy Scaleup

- Simplified processes with no need for extra investment

5. Agile R&D

- Prototyping services for smart & active objects
- Technical consultancy and troubleshooting
- Support in establishing onsite production facilities

Thank You!



To learn more about our
InkTech solutions for Printed Electronics

Just contact us!

SARALON GmbH

Lothringer Straße 11 – Hall L

09120 Chemnitz – GERMANY

inks@saralon.com

www.saralon.com

Linked in