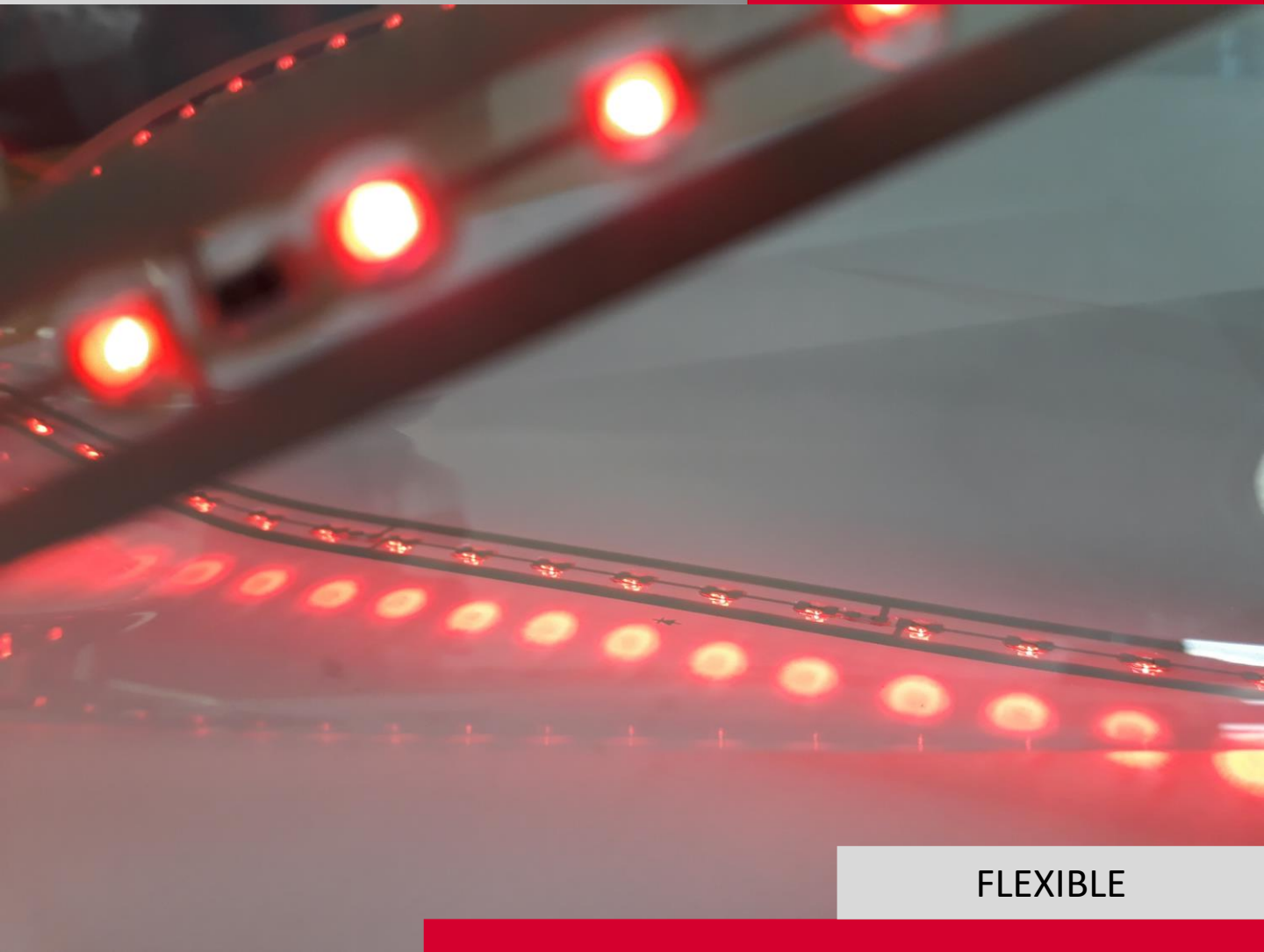


SILVER ELECTRON

Conductive Ink



FLEXIBLE

**VFP**  
Ink Technologies

# SILVER ELECTRON

## The reference ink in **flexible circuit board** printing

### Description

**Silver Electron** is a solvent based ink made of silver particles. Its annealing temperature ranges from **90 to 150 °C** to integrate industrial processes.

**Silver Electron** is printable using **silks-screen** printing techniques.

### Applications

**Silver Electron** is used in the credit card, medical and automotive fields by manufacturers as well as research centers.

### Most common uses

Flexible keyboards  
RFID antennas  
Plastic injection  
Sensors  
Domotics

### Advantages

#### Skills, know-how and made in France

VFP Ink Technologies (Tripette & Renaud group) has been a mark of expertise and quality in the chemical ink formulation sector for 25 years.

#### Advice & support

VFP Ink Technologies is present across the globe through its international distribution network.

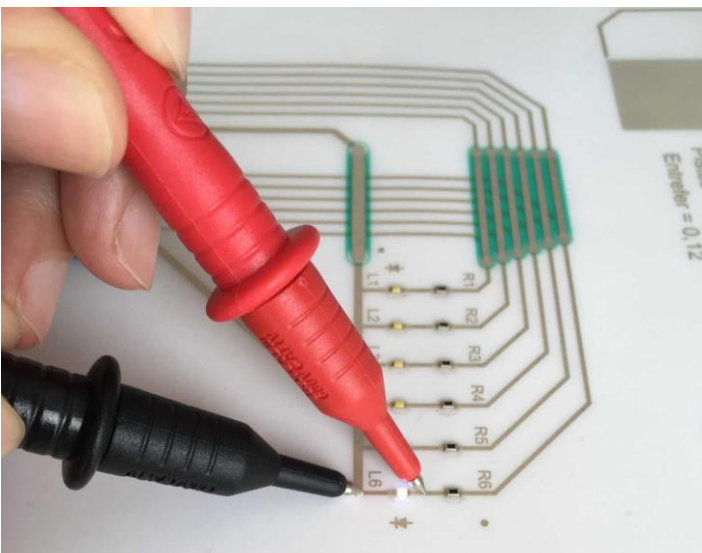
We are always available to advise and assist our clients in their printed electronics projects.

#### Responsiveness

Rapid response to questions and requests on quotes.

One of the shortest delivery times in the market.

VFP Ink Technologies accompanies you in your express prototypes printing projects thanks to its R&D laboratory equipped with printing and annealing machinery.



# SILVER ELECTRON

## Silver Electron range

Product Reference	Annealing temperature (°C)	Annealing time (min)	Resistivity property (mΩ/sq/mil)	Printing
SE	130 to 150	10 to 30	$R \leq 15$	Silk-screen
SE-FC	90 to 120	1 to 20	$30 \leq R \leq 180$	Silk-screen
SE-SC	90 to 120	1 to 20	$12 \leq R \leq 30$	Silk-screen
SE-TF	130 to 150	10 to 30	150	Silk-screen
CO-SE*	130 to 150	10 to 30	50	Silk-screen

\* CO-SE is a copper ink containing silver coated particles to prevent oxidation.

### A wider range

An annealing temperature range to integrate all industrial processes.  
(hot air drying, IR tunnel)

### Substrates

The Silver Electron range was designed to adhere to a wide array of substrates such as PET, polycarbonate, TPU, polyimide, glass, paper, textile fiber, Kapton...

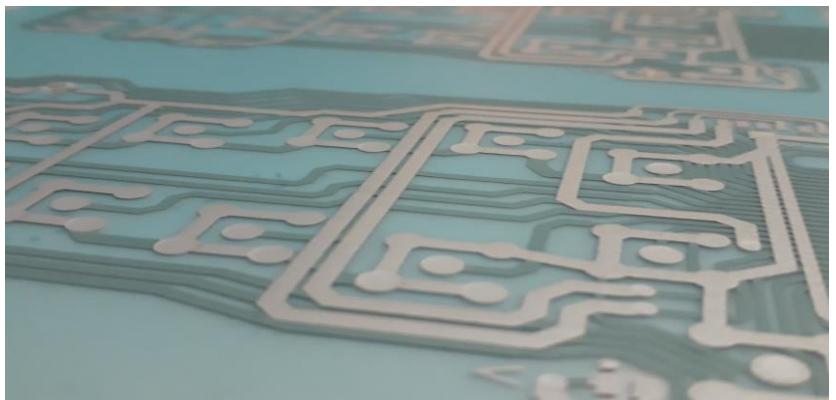
**SOLVENT INK**



### Options

The Silver Electron range has been tested and validated on Xenon photonic annealing as well as NIR light systems.

The conductive ink range is compatible with our dielectric varnishes (ref: **ECV**) for multilayer printing and printing on resins qualified for components transfer.



# SILVER ELECTRON

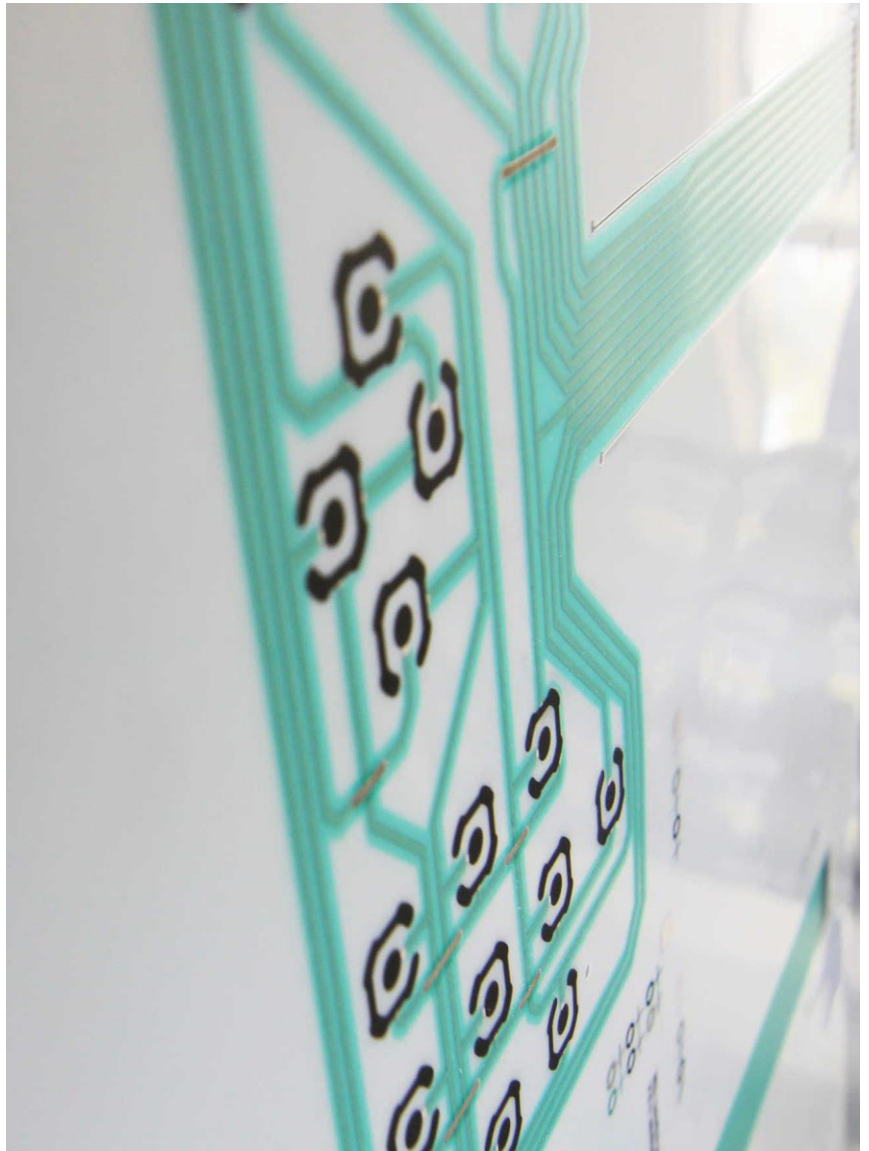
## Implementation

**The Silver Electron ink range** is printable using all silk-screen printing processes as well as dispensing systems.

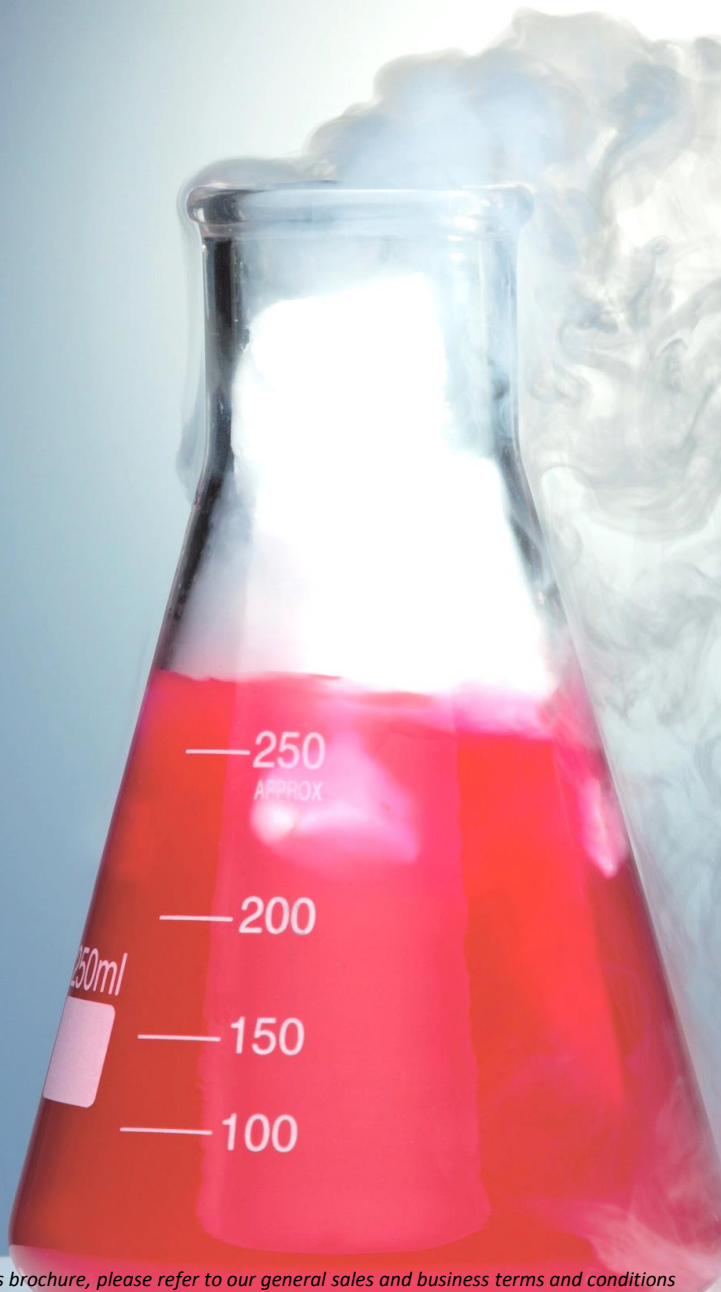
**The Silver Electron ink range** can be redesigned to perfectly fit our clients' production line.

**Our functional inks** are implemented at our clients' plant with our technical team comprised of **experienced application engineers**. We offer a comprehensive support ensuring the best possible start of any industrial process.

**VFP INK TECHNOLOGIES** has been designing and developing its own silk-screen printing screens for **25 years** in order to offer the best production optimization parameters. A screen contributes about **70%** at the start of the industrial process in terms of precision and raw materials cost savings.



# SILVER ELECTRON



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**VFP**  
Ink Technologies