

TECHNICAL SPECIFICATIONS

PRODUCT DESCRIPTION

The FLEXOGRAPHY SILVER ELECTRON (FSE) is a solvent ink.

APPLICATIONS

Compatible with paper, cardboard, PET, polycarbonate, treated polyester, glass, and polyimide substrates.

The above-mentioned substrates may differ according to their origin. It is therefore essential to carry out preliminary test.

MAJOR ADVANTAGES

Ink equivalent to the Silver Electron, printable by flexography.

ELECTRICAL PROPERTIES

Resistivity $\leq 10 \text{ m}\Omega/\text{sq}/\text{mil}$

PRINTING

Printers: Flexography for automatic, semi-automatic and manual machines.

Screen: all types of polyester or stainless-steel fabrics can be used with a mesh from 79 to 120 threads/cm.

Squeegees: polyurethane 65 Shore A, good sharpness.

Dilution: no dilution must be performed before printing. However, manual shaking is recommended before use.

Cleaning: MP201.

THICKNESS PRINTING

90 threads/cm polyester mesh : 5-6microns

DRYING AND CURING

Thermal curing:

120°C (248°F) during 30 mins

150°C (302°F) during 10 mins

PACKAGING

High density polyethylene pots (HDPE). Open pots for sampling must be carefully closed as soon as possible.



Ink properties

TEST	PROPERTIES
Viscosity (Poises), Rotathinner, 562 RPM, 25°C	12 - 18
Coverage (cm ² /g) : Depending on thickness	300 - 380
Shelf-life on screen (min)	60 mins

Physical properties of conductors printed on PET TCA (125 µm)

TEST	PROPERTIES
Resistivity (mΩ/sq/mil) ; Curing at 150°C - 10 mins	10
*Resistivity after net fold (1 cycle) (mΩ/sq/mil)	11
Adhesion (cross-cut test)	ISO Class 0 according to EN ISO 2409 :2020 standard.

*Calculation based on linear circuit with the following dimensions: Length: 6 cm, Width: 1 mm, Thickness: 8 µm.

WASTE MANAGEMENT

Packaging contaminated with hazardous substances.

Do not dispose into the environment.

VFP Ink Technologies encourages all users to develop a responsible environmental policy.

HEALTH AND SECURITY

Refer to the MSDS.

We recommend that you wear Personal Protective Equipment recommended by the MSDS and follow its handling precautions.

STORAGE

1 year in its original packaging stored between +5°C and +35°C.

Guarantee reserves: Although the data in this leaflet have been established after careful testing, it is provided as a guide; no liability can arise from this for VFP, it being understood that we advise you to carry out preliminary tests before any commercial draw. No seller, representative or agent has the right to give any guarantee or insurance, which would be in contradiction with what is said above. In any case, refer directly to our general conditions of sale.