

glair^{INK}



Infrared (IR) security inks have become essential for modern banknotes and identity documents, enabling fast and reliable machine authentication throughout their lifecycle. Gleitsmann Security Inks (GSI) introduces **glair^{INK}**, a new generation of IR security inks designed to deliver advanced machine-readable signatures while remaining cost-efficient and easy to integrate into existing banknote designs.

With nearly 200 years of expertise in secure printing, Gleitsmann Security Inks (GSI) has developed the **glair^{INK}** portfolio to offer scalable levels of protection tailored to different security strategies.



A versatile IR solution

glair^{INK} enables the creation of complex and distinctive infrared signatures that can be verified across a wide IR spectrum. The inks are compatible with multiple printing technologies, including offset and intaglio, allowing flexible integration into existing banknote and ID document designs while supporting vibrant visible colours without compromising security.

glair^{INK} product range

glair^{STN} (Standard)

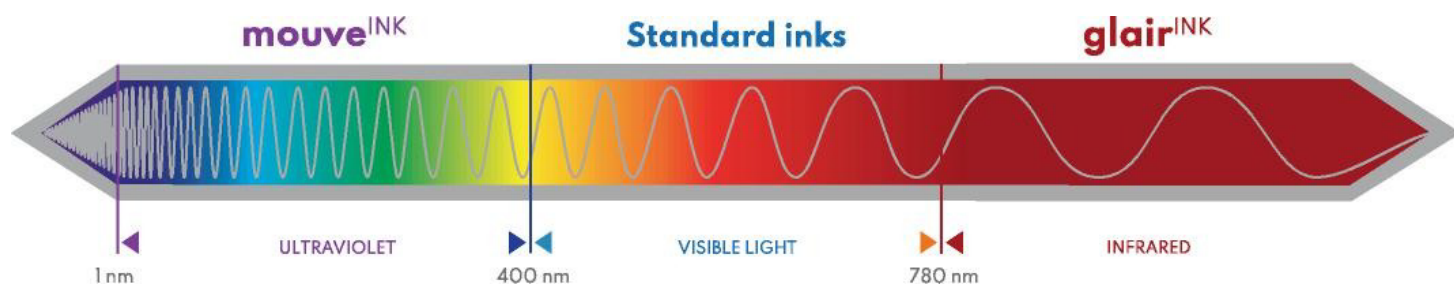
Provides a wide range of colour shades with reliable IR visibility and IR splits. Fully compatible with existing detection infrastructure such as ATMs and vending machines, making it a cost-effective upgrade to current solutions.



IR-detector and IR/AT pair of inks

glair^{ADV} (Advanced)

Delivers a unique IR signature with wavelength-dependent IR visibility ("IR flip"), enabling high-speed processing and enhanced machine authentication while remaining compatible with current verification equipment.



GSI'S PRODUCT RANGE

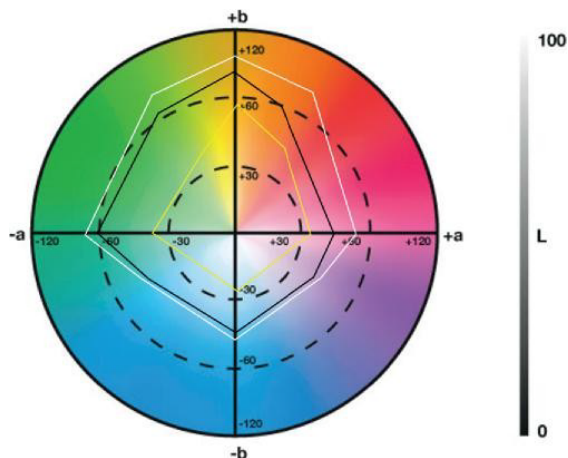
glair^{PRO} (Professional)

A future-ready solution designed for next-generation detectors. Active beyond the standard near-IR window and readable in the long-wavelength InGaAs range. Can be combined with glairADV within a single ink for maximum protection. Sustainability and integration

glair^{INK} inks use highly efficient materials requiring low loading levels while remaining environmentally responsible and safe. They are designed to interact reliably with authentication devices throughout the lifecycle of banknotes and ID documents.

Key technical characteristics

- Vibrant colours combined with strong machine-readable
- IR features (offset & intaglio)
- Excellent lightfastness and chemical resistance
- Highly secure pigments with controlled sourcing
- Non-hazardous and REACH registered
- Seamless integration with existing verification infrastructure
- Suitable as an upgrade for existing inks and banknote designs



White line: available colour without IR-feature

Black line: available colour for **glair^{INK}**

Yellow line: available colour for standard coloured IR-A inks



Gleitsmann Security Inks GmbH, Ederstr. 20–22, 12059 Berlin - phone +49(0)30 68 24 95-0 - currency@ingroupe.com
ingroupe.com