

glair^{INK}



THE FUTURE OF BANKNOTE SECURITY

Would you agree that IR visible inks are a must-have security element of modern banknotes and travel documents? Are you actively looking for an economical solution of widely used IR detectable ink features? Do you seek a highly-sophisticated, groundbreaking IR signature that will set a new standard for machine readable IR features?

Secure solutions for banknotes and identity documents have been the core competence of Gleitsmann Security Inks (GSI) for more than 175 years. Our new suite of IR security inks, **glair^{INK}**, offers outstanding protection against counterfeiting and fraud. Our customers can choose the required level of security from the broad range of our IR security inks.

A Versatile Solution

With **glair^{INK}**, central banks and designers can now implement highly complex and distinctive infrared signatures that can be verified across a wide range of the light spectrum. Our technology offers unparalleled flexibility as it can be applied using various printing techniques, such as offset and intaglio inks. This not only enables significant cost savings for central banks, but also allows designers to incorporate more vibrant colour shades in banknote designs without compromising security.

glair^{STN} (glair Standard)

Our state-of-the-art solution, **glair^{STN}**, strongly enhances the availability of a wide variety of colour shades for IR visibility and IR-splits. The inherent compatibility with existing detection infrastructure like ATMs and vending machines ensures that **glair^{STN}** seamlessly integrates as a cost-effective solution for your needs.



glair^{INK} enables a smooth authentication of notes by vending machines.



IR-detector and IRA/T pair of inks

glair^{ADV} (glair Advanced)

Experience the next level of security with **glair^{ADV}**, which provides a unique IR signature in inks, enabling high-speed banknote processing and enhanced security. **glair^{ADV}** features an IR visibility flip when viewed at different IR wavelengths, offering advanced machine-readability for improved authentication and protection. Despite its advanced IR signature, it still integrates smoothly with the current generation of banknote processing and other verification equipment.



glair^{PRO} (glair professional)

Future-proof your banknotes with **glair^{PRO}**, our cutting-edge solution for the next generation of detectors. **glair^{PRO}** is active beyond the standard near-infrared window. It also offers the option to combine with glairADV in a single ink for maximized protection against counterfeiting. Its integration as a high-level hidden feature, with readability in the long wavelength InGaAs detection window, ensures your banknotes remain secure for years to come.

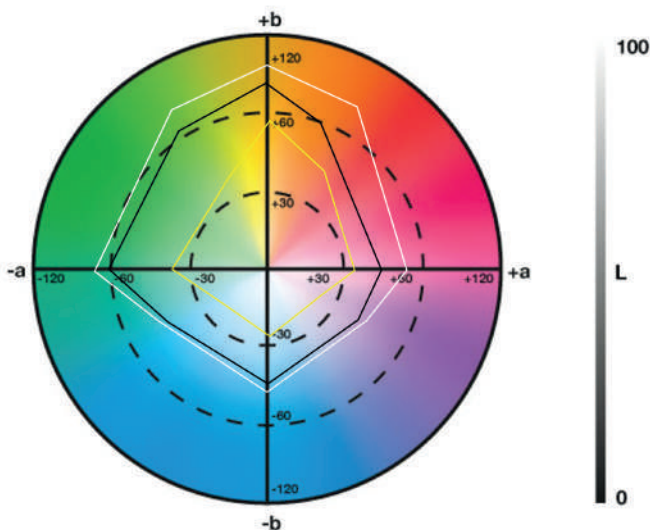
Sustainable and Environmentally Friendly

At GSI, we prioritize energy efficiency, environmental integrity and sustainable development. Unlike other currently used inks, our **glair^{INK}** technology utilizes highly efficient materials that require low material loading levels while being safe for the environment.

glair^{INK} is the outstanding solution for your banknotes and identification documents to interact with authentication devices throughout their lifecycle.

glair^{INK} in a nutshell

- vibrant colours with strong IR-features for intaglio and offset inks
- excellent lightfastness & chemical resistance properties
- highly secure due to controlled sourcing of pigments
- non-hazardous & non-toxic materials (REACH registered)
- integration with existing verification technology
- available as a machine-readable upgrade to existing inks and 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

For more information refer to:
www.glair.ink

GSI intaglio inks – a proven banknote classic

Gleitsmann Security Inks GmbH, Ederstr. 20-22, 12059 Berlin
 phone +49(0)30 68 24 95-0 · sales.gsi@hubergroup.com · www.gsi-gmbh.com

