

mouve^{INK} polar



Building on the success of GSI's "traffic light" feature, **mouve^{INK}polar** elevates fluorescent security to a new level. Inspired by the polar lights, it combines stunning colour transitions with high security, making banknotes, ID documents, and other secure prints both protected and visually striking.

mouve^{INK}polar displays fluently merging colour emissions, from blue or pink to green, under UVA, UVB, and UVC light. Its core technology, developed with GSI's trusted partner Leuchtstoffwerk Breitung, ensures a feature that is machine-detectable, visually dynamic, and impossible to replicate with standard inks or foils. The rising colour depends on the UV wavelength, while the fading green remains consistent, providing a clear and memorable authentication key. Colourless in daylight, it integrates seamlessly into existing designs and can be applied via standard intaglio or screen printing.

Key benefits and features

- Three luminescence emissions in one ink: rising, fluorescent, and fading colours
- Multiple excitation wavelengths: UVA (365 nm), UVB (312 nm), UVC (254 nm)
- Includes level 3 forensic verification for laboratory checks
- Protects banknotes, ID documents, revenue stamps, and other high-security prints
- Eye-catching, dynamic colour effects for enhanced recognition
- Fully compatible with standard intaglio and screen printing; no extra equipment needed
- Colourless in daylight for seamless integration into existing designs

THREE LUMINESCENCE EMISSIONS TRIGGERED BY A SINGLE UV-LIGHT



Daylight view



UV-A Image



UV-B Image



Fading Colour



UV-A

UV-B



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