

## Security Inks

Security inks offer manufacturers and consumers greater confidence by protecting them from piracy and product tampering. Governments can fight fraud and counterfeiting by incorporating our security inks into official travel documents, currency, and tax stamps or labels.

### INK ADVANTAGES

- Versatility - Kao's dye-based inks print on offset and coated stock without optical brighteners.
- Multiple technologies - Kao inks can be used with TIJ, piezo, and CIJ inkjet printing systems.
- Compliant - Our inks comply with increasingly stringent government and industry standards.

In addition to our standard inkjet inks, Kao creates custom formulations to meet specific printing requirements. We also offer private-label and contract manufacturing services.

### INVISIBLE AND FLUORESCENT INKS

The need to prevent fraud and meet government consumer safety regulations is driving increasing interest in these aqueous inks.

#### Invisible Ink for Piezo Technology

This dual-wave, water-based dye ink is formulated for Kyocera and Samba-based technology. It is suitable for paper substrates and facstock without optical brighteners.

#### Taggant Inks

These customisable security inks incorporate Honeywell Authentication Technologies. The ink features a high-end security pigment that provides the lock-and-key functionality when combined with a specific ink formulation detector. The security feature is undetectable with a microscope, ultraviolet or infrared light and prints like any other ink.

#### MICR Inks

The proprietary magnetic ink character recognition (MICR) inkjet ink is formulated with iron oxide nanoparticles. The water-based formulation offers greater stability from settling, with up to 50% iron oxide composition and longer work life for the printhead. The water-based inkjet ink is formulated with up to 40% iron oxide for superior character readability. It offers exceptional decap times and is less abrasive to printheads, extending printhead uptimes and cost savings.

### SECURITY INK TYPES

- Invisible fluorescent ink
- Visible fluorescent ink
- Ultraviolet invisible ink
- IR invisible ink
- UV longwave and shortwave ink
- Lightfast and non-lightfast ink