

# AB01

## Water based blue invisible pigment ink

### TECHNICAL DATA SHEET

AB01 is the invisible fluorescent pigment ink emits blue light under a UV light source, to be invisible under normal light. The most popular applications of AB01 ink is for the security and authentication of documents, products such as: certificates, travel checks, tickets, security label and other product authentication marking. AB01 ink can be applied for many porous substrates as wood paper, plain paper, cardboard, duplex board with the excellent performances related to light fastness, high water resistance ability and good sharpness.<sup>(1)</sup>

### Technical Specifications

|   | AB01 Print Cartridge                              |
|---|---|
| <b>Ink type</b>                                     | Blue invisible pigment aqueous ink                |
| <b>Print cartridge type</b>                         | Half inch TIJ cartridge                           |
| <b>Resolution</b>                                   | Up to 300 dpi                                     |
| <b>Nozzle count</b>                                 | 300   |
| <b>Print swath</b>                                  | 12.7 mm   |
| <b>Firing voltage</b>                               | 11.2 V  |
| <b>Fire pulse width</b>                             | 2.0 $\mu$ s                                       |
| <b>Pulse warming</b>                                | OFF   |
| <b>Decap time<sup>(1)</sup></b>                     | Up to 30 min                                      |
| <b>Drying time<sup>(1)</sup></b>                    | 1 - 3 s at 300 $\times$ 300 dpi                   |
| <b>Throw distance<sup>(2)</sup></b>                 | Up to 5 mm, recommended $\leq$ 3 mm               |
| <b>Average delivered ink</b>                        | 34 mL (vertical)                                  |
| <b>Average drop volume<sup>(3)</sup></b>            | Updating  |
| <b>Operating conditions<sup>(4)</sup></b>           | 15 $^{\circ}$ C to 35 $^{\circ}$ C, 45% to 80% RH |
| <b>Shipping / storage temperature<sup>(4)</sup></b> | 10 $^{\circ}$ C to 30 $^{\circ}$ C                |
| <b>Best before<sup>(4)</sup></b>                    | 6 months from filling date                        |

### Cartridge Shipping & Storage

- Store the cartridge with a clip placed over the printhead. Nozzles up position is recommend.
- Refer to Safety Data Sheet for more information.

### Cartridge Maintenance & Handling

- Before use, vigorously shaking about 2-3 minutes and then open cartridge clip wipe the cartridge printhead by a lint-free cloth moistened with deionized water until good print quality is achieved.
- Use a lint-free cloth moistened with deionized water to clean the cartridge printhead. Use of a cloth with lint may clog the nozzles. Holding the cartridge printhead face down, gently press the printhead on a lint-free cloth to allow ink to wick out. Then, slowly and lightly wipe across the tip of the long edge.

### Light fastness

AB01 ink's printouts are intended for indoor use only, not recommended for outdoor exposure or window use. User should conduct individual tests to determine if light fastness meets the specific requirements.

(1) Ink performance may vary depending on substrate, printer, and environmental conditions.

(2) Recommended. May vary by application.

(3) Max drop volume able up to 37 pL by continuous printing with solid image (HxW: 0.5x1 inch) at print speed 15 m/min, 300x300 dpi, temperature 25-28  $^{\circ}$ C and humidity ~ 55-60% RH.

(4) Must be shipped and stored under recommended conditions. If product shipping/storage is below 5  $^{\circ}$ C, a 5 hours warm-up within the operating temperature is required prior to use.

### SHANGHAI KEYING TRADING CO.,LTD

740 North of Zhong Shan Road, Shanghai, 200070, China

Tel.: 021-63174205

Fax: 021-63177603

Email: simoncc1000@shanghai-dayco.com