

Document authentication, promotional materials, direct mail piece, and assorted cup applications can all use CTI's Offset Ink. If you don't see the special-effect you are looking for, give us a call anyway to see if we can create what you need.

THERMOCHROMIC INK:

These inks reversibly change color as their temperature changes. Our thermochromic inks all work the same way: below the activation temperature they are colored and above the activation temperature they are clear or lightly colored. As the ink cools, the original color returns.

Ink Formulations Offered:

- Wet •UV Cure
- Dry •UV Cure Dry

Our thermochromic inks can be modified to change colors at a variety of different temperatures

- Low Temperature Ink:** Used in applications where a product is chilled to communicate a variety of possible messages to consumers. [Examples: Assorted packaging intended for the refrigerator and/or freezer.](#)
- Body Temperature Ink:** Designed to show color at normal room temperature and to disappear or change colors when heated up. This can be done by rubbing, breathing or otherwise heating up a printed substrate. [Examples: Checks, secure documents, interactive direct-mail documents, magazine inserts, etc.](#)
- High Temperature Ink:** This formulation disappears or changes color when heated up. [Examples: Great safety feature on labels for microwaveable products and hot beverages](#)

Standard Temperatures:
8°, 12°, 15° C, 31° C (body-heat activated), and 45° C
Custom Temperatures (upon request):
between -5° C and 65° C

AUTHENTICITY APPLICATIONS:

CTI thermochromic inks are used for tickets, checks, receipts, and many other security applications. These inks are not reproducible on scanners or copy machines.



room temp

chilled



room temp

warmed



room temp

hot



room temp

exposed to high heat

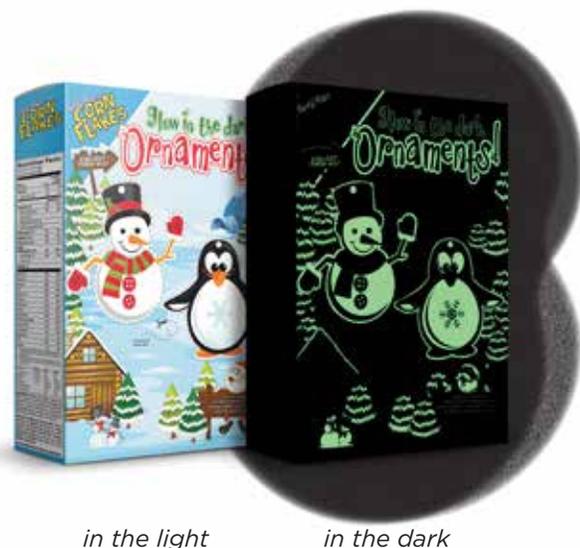
PHOTOCHROMIC INK:

Another CTI breakthrough is photochromic inks, or sunlight inks, for packaging. These inks change from clear to the selected color (multiple colors are available). The ink changes quickly when exposed to sunlight and then changes back to original clear when removed from sunlight (within a few minutes). The process repeats itself.



GLOW-IN-THE-DARK INK:

Glow-in-the-dark (GID) ink is often used to bring a unique look to printed documents. CTI makes the Glow in the Dark effect more accessible and affordable to offset printers by lowering the typical Total Cost of Production (TCP); this ink is run as a spot color on an offset press. This innovative ink allows offset printers to not send glow in the dark jobs to an offline finisher. Depending on the amount of glow needed, we have seen printers apply one, two, three, or four hits of glow ink. Once charged by artificial or natural light, your artwork will have the WOW effect without historical added of off-line finishing. This is an excellent effect year round, but is especially effective during Halloween and Christmas. For best results it is recommended that you print on a white or light background.



Ink Formulations Offered:

- Wet •UV Cure
- Dry •UV Cure Dry