



HelioNOTE

HelioID

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THERMOCHROMIC INKS FOR SECURITY DOCUMENTS

Inspiring Confidence.

THERMOCHROMIC INKS

These heat sensitive inks offer security to a wide range of applications from Passport booklets to Tax Stamps and Certificates. Although the ink can be manufactured to react at a variety of heat levels, it is most commonly set close to normal human body temperature. This allows for authentication using only the warmth of an individual's finger tips. The fact that there is no need for equipment like UV lamps or detectors adds to the strength and versatility of this overt feature.

Thermochromic inks are coloured below the specified temperature and become transparent when this temperature is exceeded. It is possible to add a visible, non-changing colour to increase the range of effects, for example; by using a 27°C blue thermochromic ink and adding yellow, it is possible to achieve a green colour below 27°C and yellow above 27°C.

Printing Methodology

Thermochromic inks can be printed via wet or dry offset, letterpress, gravure, flexo and screen processes. It should be noted that Thermochromic inks printed in offset generally produce light pastel shades and should not be used to print intricate designs. Full opacity is only possible by screen printing these inks.

