

O.V.M[®] - Fiduciary Inks

Disruptive and Flexible Security for I.D documents

Polycarbonate & Transparent areas

Traditional fiduciary paper has been gradually replaced by polycarbonate. The use of this polymeric material allows the integration of transparent areas in ID documents, such as windows: this new type of security feature is becoming a standard.

Making transparent areas secure

Currently, document manufacturers face the challenge of securing these transparent areas to level 1. Commonly used security inks, while representing a ready-made solution, are frequently the target for counterfeiting. These inks have thus partially lost their efficiency in terms of security.

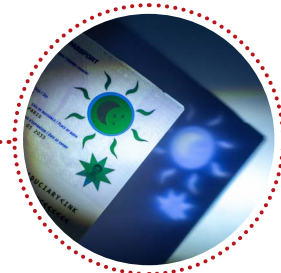
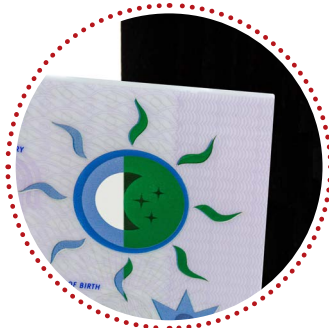
C.S.T introduces O.V.M « Optical Variable Material » Fiduciary Inks

that secures the printing of ID documents. This technology is different from what is used for conventional security inks. It is exclusively dedicated to the market of ID and fiduciary documents.

ColorShift

LEVEL 1

O.V.M Fiduciary Inks offer a very innovative and intuitive visual effect: the pattern printed on the transparent area of the ID document changes color according to the color of the background on which it is displayed. For example, the printed pattern appears Blue when viewed on a light background; it turns Green on a dark background.



SmartShadow

LEVEL 1+

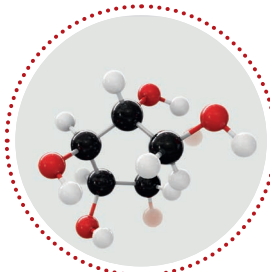
O.V.M Fiduciary Inks create a new level of intermediate verification between level 1 and level 2. This new level is observable thanks merely to equipment readily available to the general public: the flashlight of a smartphone (or any other conventional white light source). For example, the printed pattern turns Green when its projected shadow remains Blue.



UV-Boost

LEVEL 2

The pattern printed with O.V.M Fiduciary Inks shows a very strong fluorescence under UV light.



ChemLock

LEVEL 3

Level 3 is controlled with laboratory equipment. Each O.V.M Fiduciary Ink is identifiable by a unique spectral DNA. It can be certified by C.S.T lab.

O.V.M[®] - Fiduciary Inks

Disruptive and Flexible Security for I.D documents



Security Inks exclusively reserved for ID documents



Multi-level control embedded into one security feature (1 / 1+ / 2 / 3)



A new generation of highly secured inks with disruptive visual effects



Strong color fastness



Easy to control and memorize by police forces and citizens







Available in multiple color shifts (i.e : Blue/Red - Green/Red - Pink/Green - Blue/Green - Yellow/Green - Red/Green - Orange/Green)



Can be applied with standard printing processes (e.g : offset, screen printing)

Recap of Security Features and Check Points

Effect	Level	Description	
ColorShift	1	O.V.M Fiduciary Inks offer a very innovative and intuitive visual effect: the pattern printed on the transparent area of the ID document changes color according to the color of the background on which it is displayed. For example, the printed pattern appears Blue when viewed on a light background; it turns Green on a dark background.	
Smart Shadow	1+	O.V.M Fiduciary Inks create a new level of intermediate verification between level 1 and level 2. This new level is observable thanks merely to equipment readily available to the general public: the flashlight of a smartphone (or any other conventional white light source). For example, the printed pattern turns Green when its projected shadow remains Blue.	
UV-Boost	2	The pattern printed with O.V.M Fiduciary Inks shows a very strong fluorescence under UV light.	
ChemLock	3	Level 3 is controlled with laboratory equipment. Each O.V.M Fiduciary Ink is identifiable by a unique spectral DNA. It can be certified by C.S.T lab.	

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