



Oberthur Fiduciaire (Paris 1842) Title: Avalon¹⁴ c.2021-2022 The first interactive printed banknote feature, Avador¹⁶ is a next generation UV ink that changes colour when exposed to friction.

The Art of AvalonTM

Oberthur Fiduciaire

by

Interactive colourchange technology

What is Avalon[™]?

The first interactive printed banknote feature, Avalon[™] is a next generation UV ink that changes colour when exposed to friction to provide added protection against counterfeiting.

How does Avalon[™] work?

Pigment added to a single-coloured fluorescent ink creates an interactive colour-change that adds a level of security to protect against counterfeit attempts.

When rubbed with a coin edge, Avalon[™] ink will temporarily change colour from its fluorescent state to blue then to yellow, before reverting back to its original colour blue.



Why choose Avalon[™]?

Avalon[™] is first and foremost a smart material that was designed and developed under one roof in our high-security premises. It is produced internally under full control in a high tech laboratory.

It is a Level 2 security feature for cashiers.

Today, single colour UV inks can be commercially sourced from the internet and used by counterfeiters to fake official documents.

The interactive colour-changing properties of Avalon™ provide added security and protection against counterfeiting.

The new generation of UV interactive inks, Avalon $\ensuremath{^{\text{\tiny M}}}$ is innovative, secure, and durable.

What are the Avalon[™] colour options?

The most secure and advanced fluorescent ink available today, Avalon™ invisible UV ink is available in offset or intaglio.





Avalon[™] did you know?

Like the luciferin molecule of the fireflies glowing at nights, Avalon[™] is an organic molecule from the exciting and almost endless family of smart materials also called intelligent or responsive materials that own one or several properties able to change in a controlled fashion by external stimuli.





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