



PRINTED SECURITY

Oberthur Fiduciaire
(Paris 1842)
Titre: Arc-en-Ciel™
c.2022-2024

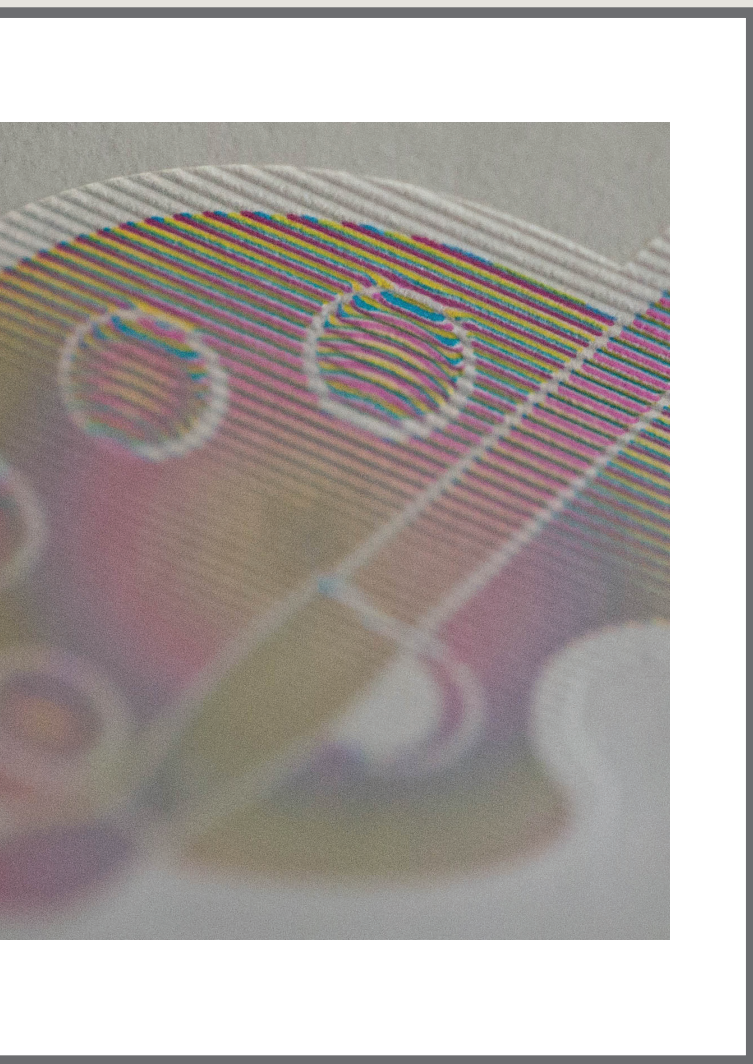
Arc-en-Ciel™ is a level one security feature that visualizes when the document is tilted and the feature generates moiré effects.

The Art of Arc-en-Ciel™

by

Oberthur Fiduciaire

Introducing
Arc-en-Ciel™,
Customized moiré effects



What is Arc-en-Ciel™?

Arc-en-Ciel™ is a level one security feature that visualizes when the document is tilted and the feature generates moiré effects.

How does Arc-en-Ciel™ work?

Arc-en-Ciel™ is a combination of a multicoloured offset frame embossed with a intaglio blind stamp. Each frame is adapted and personalized in accordance with the desired effects and the shape of the pattern.

What are the benefits of Arc-en-Ciel™?

This security feature requires a specific embossing of the paper and must be registered with the printed offset screen. When inspected vertically, the colours of the offset line screen and the blind embossing can hardly be distinguished. As soon as the substrate is tilted, the engraved profiles of the embossed area, which vary along the same line, will cause an optical moiré effect. The colours of the offset screen appear clearly with progressive transitions like a real rainbow.

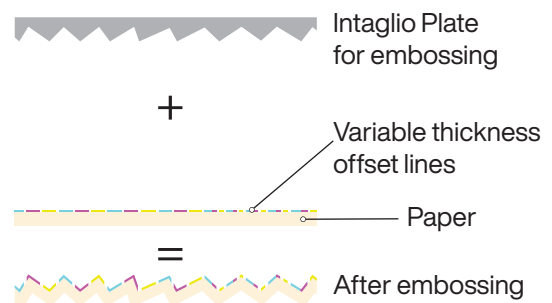


Why choose Arc-en-Ciel™?

It is essential to include security features on banknotes that do not require special tools to be observed and authenticated.

This is the case for the watermark, thread and see-through features.

Arc-en-Ciel™ adds a dynamic quality to these Level One security features as well as heightened security because it requires the creation of an embossed area with a specific engraving profile that it is very difficult to counterfeit.





Arc-en-Ciel™ - Did you know?

Visual acuity is measured in tenths.

A person with 10/10ths visual acuity is able to distinguish a 100 microns in size black dot on a white background at a distance of 1 metre. Below this level, you will need to use tools such as magnifying glass.

The thickness of the offset line screen used on Arc-en-Ciel has been carefully calibrated defined so that the eye, whilst although distinguishing a certain line screen, will also be able to appreciate an obvious iridescence of the colours when the substrate is tilted.



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