



VHP Security Paper
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Title: Highlink™
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A strong and highly durable 100% cotton
banknote paper.

The Art of Highlink™

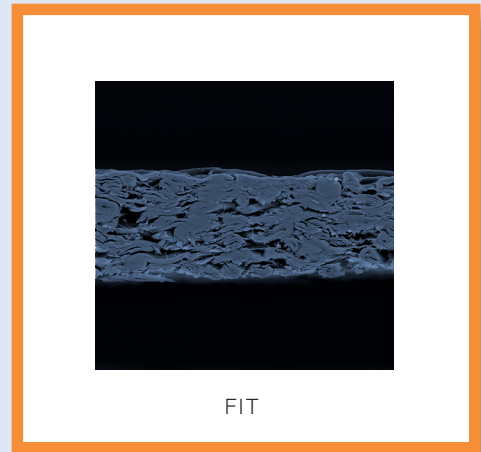
by
VHP Security Paper

Introducing

The strength and durability of Highlink™

What is Highlink™?

Highlink™ is a strong and highly durable 100% cotton banknote paper. Produced with our new, patented technology, Highlink™ paper has higher cohesion and a greater mechanical strength than standard paper, providing measurable improvements.



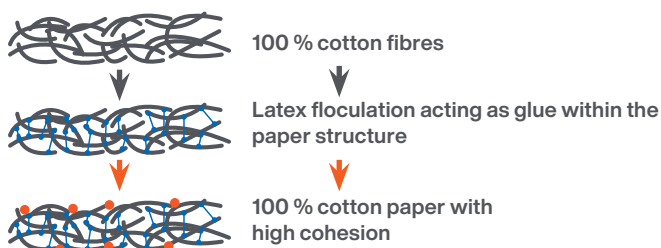
HIGHLINK™

How does Highlink™ work?

Highlink™ flocculated latex solution is added to the substrate as the paper begins to form.

The latex catalyses the bonding process and acts as a super glue, increasing cohesion and strengthening the bonds between the cotton fibres.

The result is a 100% cotton paper with a highly durable latex fibre bonded structure that has a greater mechanical strength than standard paper..



What are the benefits of Highlink™?

Laboratory tests to demonstrate the increased mechanical strength of banknote paper report::

- Lower water absorption
- High wet strength
- Lower porosity after 8x crumpling
- Higher internal bond strength

Parameters	Standard paper 100 % cotton PVOH	Highlink™ Paper
Wet Strength (% min)	25	40
Bendtsen Porosity (ml/min max.)	25	15
Bendtsen porosity after crumpling x8 (ml/min max.)	150	70
Scott bond (J/m ² min)	1000	1700



UNFIT

STANDARD COTTON PAPER

Highlink™ prevents delamination

Banknote paper begins life as two layers of pulp. The layers are laid back-to-back, and a banknote thread is integrated between them. The two layers are then laminated to form a single banknote.

Banknotes can be damaged, and the two layers can be split or be delaminated during the natural wear and tear of circulation – or as the result of a deliberate attempt to cause damage.

The higher internal cohesion or bonding of banknotes produced with a Highlink™ substrate prevents any delamination or splitting.

Why choose Highlink™ ?

Higher performance banknotes

Highlink™ substrates substantially outperform standard paper in circulation.

They absorb less dirt and water, the paper structure breaks down substantially, and there is a decrease in the bulk and porosity that usually build up through wear and tear in circulation.

The cumulative effect of these benefits is that banknotes produced with Highlink™ substrates will soil more slowly, will not delaminate, and will retain their original appearance and integrity very long after that of standard paper, longer than standard paper.

And, for even greater protection against wear and tear, and also soiling, Highlink™ is ideally combined with Ultra™ highperformance varnish leading to the best cotton based resistant solution available on the banknote market today.

Highlink is a highly inexpensive way to increase the longevity of your banknotes.



Group Headquarters & Sales Office

Oberthur Fiduciaire SAS, 7, Avenue de Messine, CS 30003, 75384 Paris Cedex 08, Francia
Tel: +33 (0)1 42 99 77 00

www.vhpsp.com