

# Rainbow Fibres™ and Spectrum Fibres™

Fibres designed specially for banknotes

Our international offices are here for *your* security

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# Your Security Your way

Security fibres designed exclusively for *your* currency



# Security Fibres for your banknotes

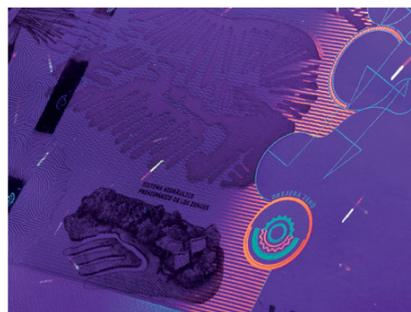
# How to secure your banknotes

## Security Fibres

Most of the world's population still uses paper banknotes. These cotton-based banknotes have adopted security fibres as one of the most reliable anti-copy security features for many years. The fibres are randomly distributed and cannot be reproduced by printing.

Security fibres may be visible (overt), invisible (covert) or incorporate a machine-readable feature (forensic). Their inclusion has no effect on the performance or physical properties of the banknote paper and the associated security attributes can be selected to conform to the rigorous durability and lightfastness demands of banknotes.

Your fibres will be unique to you and the colours chosen can be personalised and coordinated according to the colours on the flag of your country.



## Rainbow Fibres™

This range of multi-colour and multi-effect fibres is one of the most innovative developments in security fibres used in banknotes. The small size of the fibre, combined with the variety of fluorescent colours in precise register, makes it difficult to counterfeit.

Four-colour Rainbow Fibres™ fluoresce under ultra-violet light along the length of the fibre. We can combine dual-fluorescence, so that colours are different under long-wave and short-wave fluorescence.

The 'rainbow' appearance of the fibres makes it easy to describe and easy for the observer to identify. The fibres can also be a semi-public security feature if an invisible feature is combined with a visible feature.

## Spectrum Fibres™

Spectrum Fibres™ fluoresce under UV light in the six main spectral colours along the length of the fibre in the same order. They combine the whole range of spectral colours making this fibre unique and eye-catching, and almost impossible to counterfeit.

Security fibres are not suitable for incorporation into the polymeric substrate used in some plastic banknotes.

## What can we do for you?

Security fibres have been a valuable and popular feature in banknotes for over 100 years.

If you already use fibres in your banknotes then you appreciate the important contribution they make.

But times change and so have fibres, we offer;

- **A unique security fibre.** Your Country's banknote is unique so why use the same fibres as everyone else? Our fibres can be made to your exact specification.
- **Choose the colours of your national flag;** reproduced in the same sequence and position on each fibre to create a fibre that is unmistakably unique to your country.
- **The highest security fibre** at little or no extra cost compared to your existing fibres.
- **Multi-layer effects** ensure the security of your banknote will not be compromised now or in the future.
- Unobtrusive, easy to use, easy to verify and aesthetically pleasing.
- Easy upgrade from existing fibres. Non contentious and doesn't alter any other components or design of the banknote.
- **The most effective and least costly security improvement you can make to your banknote.**

No other security fibre can do this for you!

\*Using High Security Multi-Colour fibres can be cost neutral when replacing certain other fibres.

## 'Keeping it in the family!'

### Upgrade existing family of bank notes without changing the design.

Until now, changing or adding security features to banknotes already in circulation has been prohibitively expensive or impossible.

Now you can make a rapid and highly effective upgrade to your existing banknote without changing the design and without incurring additional costs\*.

Using high security, multi-colour fibres is the easiest and most effective way to improve the security of your banknote whilst at the same time adding an aesthetic and easily recognisable semi-public feature.

Our high security fibres can replace existing single colour fibres or can be used alongside single colour fibres to 'future proof' the security and counterfeiting robustness of your banknote series for years to come.

**Whatever you choose to call them,** our security fibres are one of the most innovative developments in banknote security features – we invented this range of high security fibres with our customers in mind.

The small size of the fibre, combined with the variety of colours in precise register, makes it difficult to counterfeit. Yet the rainbow and spectrum appearance of the fibres make them easy to describe and easy for the observer to determine their authenticity.

Our security fibres are completely invisible in daylight but under uv light they fluoresce in a multitude of colours.

They can also be made as visible multi-coloured fibres with different colours under uv light.

## Rainbow Fibres™

- Colours selected to compliment a country's flag or identity
- Each fibre is typically 3 or 4 distinct coloured bands
- Can include features such as short-wave UV and IR active
- Cellulose-based and invisible in ambient light



## Spectrum Fibres™

- One fibre – 6 spectral UV colours
- Bands are: Red, Orange, Yellow, Green, Blue, Violet
- Cellulose based and invisible in ambient light

