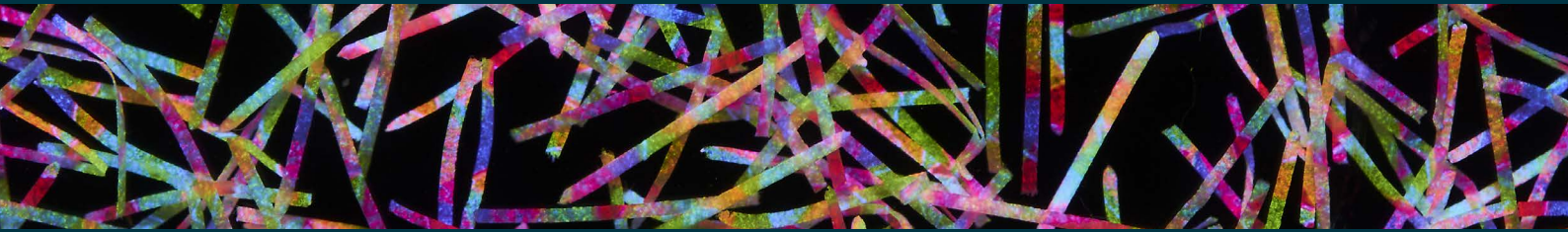


Security Fibres for Tax stamps



Myriad Fibres™



Tax stamp counterfeiters are becoming increasingly sophisticated and have a wide range of equipment and materials available to them, such as fake holograms, patches, threads, security printing inks and even single-colour fibres.

Modern tax stamps are protected by an array of sophisticated features such as taggants, secure numbering and complex printed designs and effects, but many of these features need proprietary equipment, specialist knowledge of the feature or connectivity to a 'cloud' database.

The tax stamp substrate is vitally important. It must support all the other security features and the substrate must not be easily sourced or counterfeited. Some traditional security features are less suitable for tax stamps. Watermarks are virtually impossible to view in transmitted light after application and security threads are difficult to insert into such lightweight paper.

The main paper-based security features for tax stamps are security fibres.



Security Fibres for Tax Stamps

The EU Tobacco Products Directive (TPD)

The EU Tobacco Products Directive (TPD) requires all unit packs of tobacco products to carry a tamperproof security feature, composed of visible (overt) and invisible (covert) elements, to verify whether or not a product is authentic.

Security fibres (both covert and semi-covert) are listed in Fig 5.1 on technical standards for security features – annex to the EU TPD.

Overt	Semi-covert	Covert
Guilloche	Laser image	DNA Taggants
Rainbow printing	Polarised image	Molecular taggants
Latent image	Reactive inks	
Colour change ink	Security Fibres	
Tactile patterns		
Watermark		

Fig 5.1 on technical standards for security features

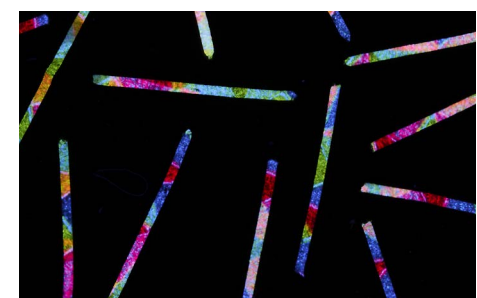
Myriad Fibres™

Our Myriad Fibres, designed specially for tax stamps, offer an inexpensive, extremely robust and easily identifiable security fibre solution, which is difficult to mimic.

A genuine tax stamp can be immediately distinguished with a simple standard 365nm UV light.

Myriad Fibres™ contain up to seven different UV fluorescent colours, in a unique and non-repeating configuration. This ensures that no two fibres will look the same and each tax stamp is unique. Checking the random distribution of fibres in the paper is the tell-tale sign of an authentic substrate. This is much more difficult to see with mono-colour fibres when the paper is cut down into a small tax stamp.

Tax stamp paper is very thin and needs to be flexible. The Myriad Fibres™ are made of cellulosic materials especially designed to bond well into the paper substrate, thereby reducing the possibility of picking or linting during printing and processing.



Myriad Fibres™

- Unique security fibre developed especially for tax stamps
- Security fibres are specified under the TPD directive
- Fibres can be colour-matched to a country's flag
- Up to 7 different UV colours on a single fibre
- Random UV fluorescent patterning
- Random effect cannot be copied by printing
- Fibre physical properties are compatible with tax stamp paper



Anti-Stokes



UV Fluorescent



Multi-Colour



Bi-Fluorescent



Machine Detectable

Security Fibres Ltd

Security Fibres is a trusted partner to commercial security printers, state printing works, paper makers, governments and commercial organisations.

Our products help our clients stay ahead of the counterfeiter and are found in banknotes, passports, tax stamps, lottery tickets and other security paper grades across the world.

We have a long history of research and development supported by our extensive patent portfolio. With over forty years' experience producing security components for use in paper, we have an enviable client base and have earned their loyalty and trust through our integrity, discretion and reputation for innovation and quality.



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