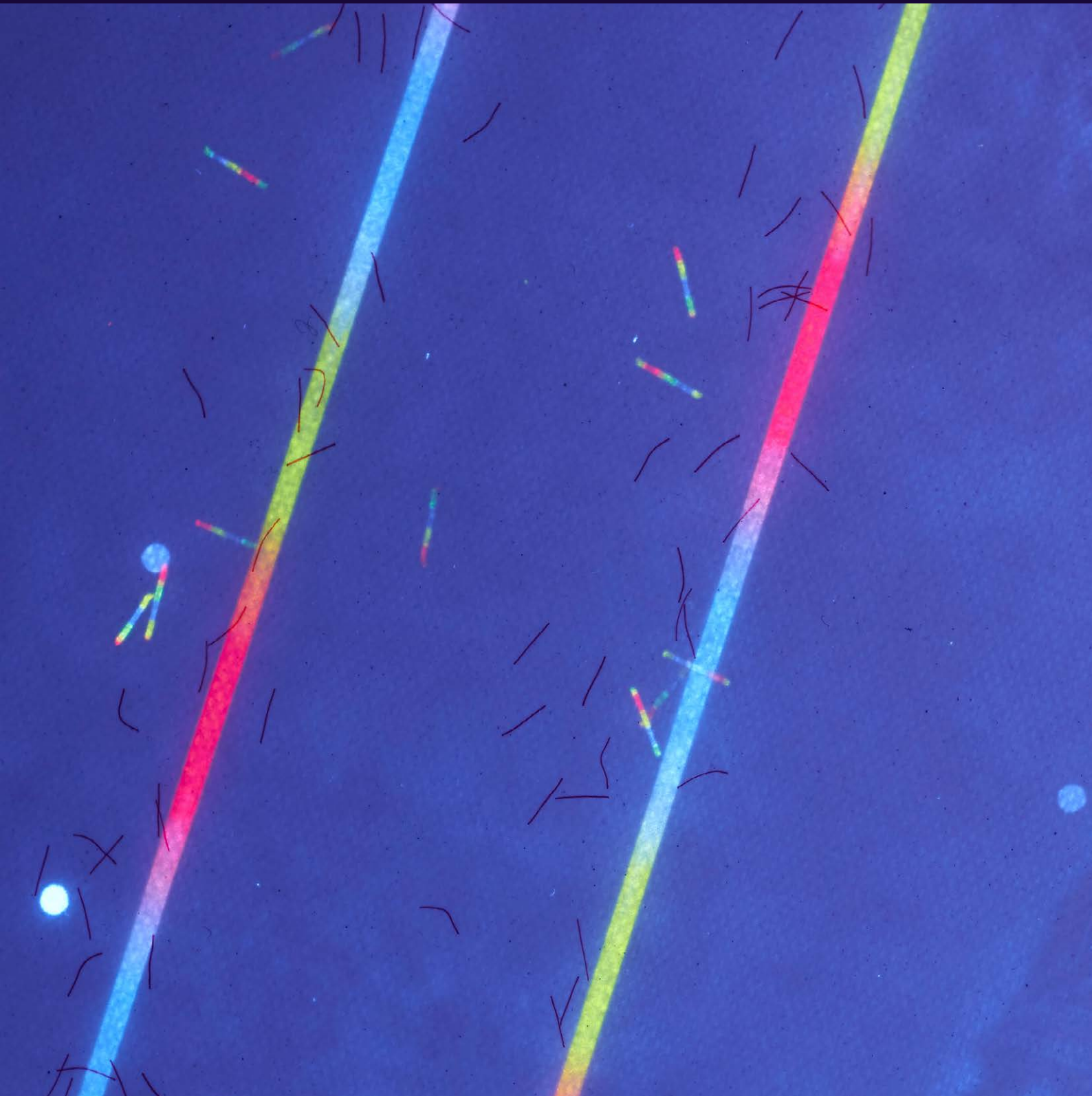




PORTALS

Passport Datasheet

# Security Threads



## Description

A security thread is an additional security feature that is embedded into the sheet itself. The thread can be either fully embedded or partially embedded creating a windowed effect. Threads can be clear or coloured, incorporate colourshift, thermochromic properties, friction reactors, invisible fluorescence and/or other features such as patterns, text and numbers.

## Threat countered

Counterfeiting

## Benefits to customer

- Easy to verify and recognise, obvious if absent or altered in any way
- Being embedded in the sheets makes it extremely difficult to replicate
- Highly effective authentication feature
- Bespoke designs can be personalised to requirement

## How it works

Threads are embedded into the substrate at the wet end of the paper making process as the sheet is being formed. The paper fibres assemble around the thread making it integral to the structure. A slightly modified approach of this same technique is used for windowed threads.



## Any additional info

- Portals are a specialist security paper maker and an expert integrator of threads. Not restricted to in-house only features, Portals are able to use and incorporate any thread available on the market.
- Thread window sizes can be varied and the threads can be positioned differently in each sheet to avoid the common method we see counterfeiters use, of printing the threads in a unified manner.



Find out more at [portalspaper.com](https://portalspaper.com)