

NEW TAGIT
3-Layer
SecurityPaper

**Smooth
Surfaces**
Reliable
Detection

New Improved 3-Layer Security Paper from Tagit

In 2015, Tagit applied for a New Patent- "Recording Medium" describing a Security Paper, which has the objective to stop the leakage of confidential hard copy printed documents, from leaving the company premises. Patents, based on this application, were granted in USA, Europe, South Korea, China and Japan.

The patent claims cover the production of EM detectable security paper using microwires of a length less than 10mm, a metal magnetic wire diameter of less than 15 μ m, with a glass insulation layer of less than 3 μ m thick, total microwire diameter less than 21 μ m, with the microwires fully embedded in a cellulose structure. Density of microwires covered is greater than 1 per sq cm. Based on claims of invention, Tagit with their partner in S.Korea and Security Paper Mill in Europe, started production and sales of commercial Security Paper in 2016.

Tagit Security Paper, up to now, has been produced using all of the patent claims, with the exception of the full embedding of the microwire in a cellulose structure, which means a small number of microwires can still be seen and protrude from the surface.

Tagit produces 100% of its own microwires in its Prague facility, Czech Republic allowing for control over composition, length, metal core diameter, and glass thickness. Collaboration with specialist paper mills in the Czech Republic and the Far East ensures the final security paper meets required standards for random dispersal and full embedment of microwires.

Benefits over existing current 1 layer Tagit Security Paper & competitor security paper:

→ Enhanced Safety:

The new 3 layer paper is safer to handle due to the absence of any protruding microwires on the paper surface.

→ Enhanced Printability:

Fully embedded microwires provide a much smoother printing surface, allowing better print quality, along with a reduction in printer wear, lowering maintenance costs.

→ Higher and More Consistent Detection:

Thinner and shorter microwires allow for random dispersion, offering improved and more consistent detection compared to competitors using larger, heavier microwires.

→ Higher levels of safety:

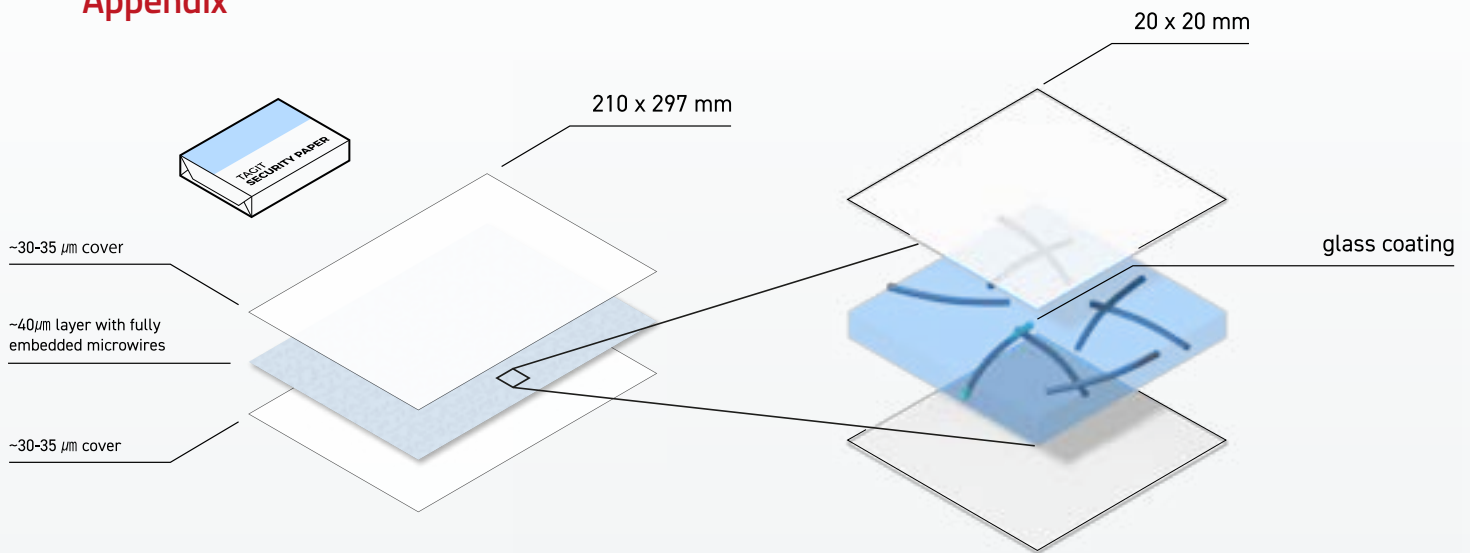
The paper continues to be cut into the correct sizes with cleaner edges, reducing paper cuts, due to the combination of thinner diameter microwires and special hardened die cutters.

TAGIT PRODUCES 100% OF ITS OWN MICROWIRES IN EUROPE REACH OUT TO US FOR SAMPLES OR PRICING INFORMATION.

The NEW 3-Layer Security Paper is commercially available from **July 2024**.

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Appendix



Tagit is pleased to announce the launch of a new 3-Layer Security Paper developed over the past few years, which now also includes all of the patent claims, fully detailed in the Tagit Patent (US 10392753) and shown in Figure 1.

The new 3-Layer Security Paper comprises a ~40 central layer with fully embedded microwires, flanked by ~30-35 μm top and bottom layers, with NO protruding microwires on the paper surface.

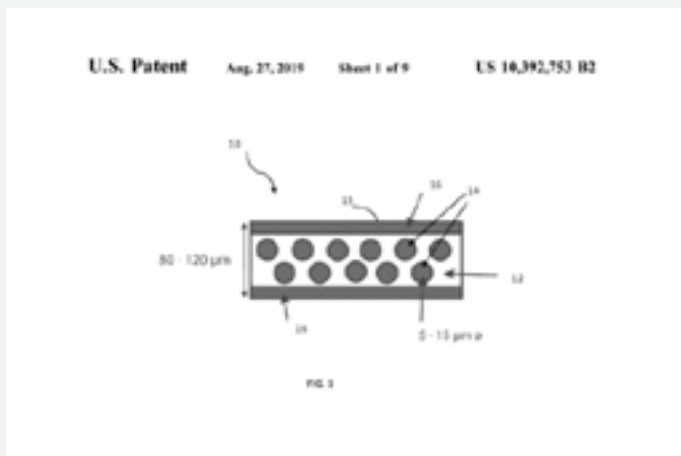


Figure 1: Tagit New 3-Layer Security Paper Structure

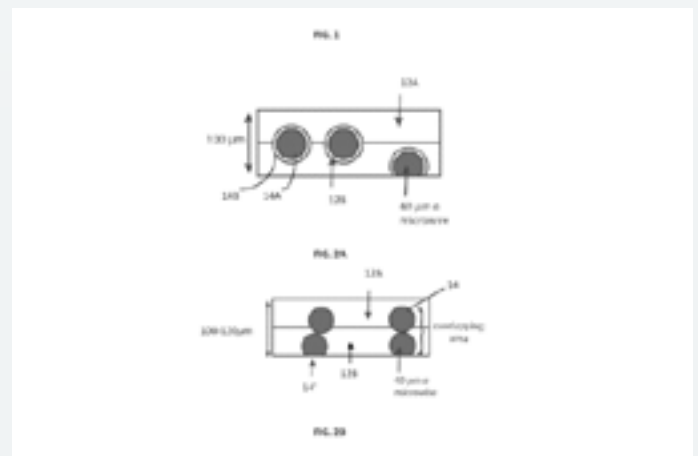
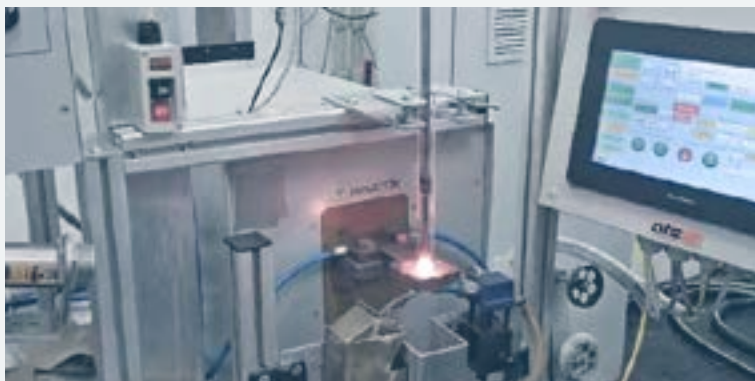


Figure 2A & 2B: Security Paper produced with larger microwires by alternative suppliers.



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