

d₂t Taggant Technology

A security feature that counterfeiters can't see, can't remove, and can't replicate



Are you suffering financial loss because your branded products are being copied?

Are you suffering reputational damage because inferior products are being sold as yours?

Are consumers being deceived, or even endangered?

The answer is to embed a covert forensic marker into products or their packaging.

- Invisible, and impossible to remove, disable, or reverse engineer
- Detectable instantly with an inline sensor at the factory, or an I-R handheld device in the field without having to unpack the product
- Zero impact on product appearance or performance
- Safe, non toxic, REACH approved, food safe
- Thermally stable and robust in all environments

One technology - many applications

- Packaging (rigid, flexible)
- Pharmaceuticals & medical devices
- Man-made textiles, fibres, yarns
- Automotive components
- Electronics & electrical goods
- Industrial mouldings
- Recycled content verification



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Cost-effective authentication



Verified Recycled Content - Made Simple

Our taggant technology provides a fast, reliable way to prove that plastic products contain **30% recycled content**. A tiny, invisible marker is added only to the recycled portion during manufacturing. Measuring this marker in the finished product independently confirms the exact recycled percentage.

Because the taggant is **embedded within the plastic**, not applied to packaging, the proof is **permanent, tamper-proof, and impossible to falsify**. Testing is **instant, non-destructive**, and can be carried out anywhere in the supply chain.

Compliance with UK Plastic Packaging Tax

The UK Plastic Packaging Tax requires packaging to contain at least 30% recycled plastic to avoid taxation. Businesses must hold **auditable, objective evidence** of compliance, and HMRC may request verification at any time.

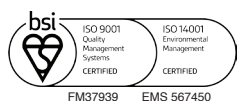
Supplier declarations alone are often insufficient. Our taggant system provides **robust, product-level physical proof**, reducing audit risk and strengthening compliance with tax and regulatory reporting.

Seamless integration:

- Taggant is added during polymer processing
- A tiny amount is dispersed throughout the product (or its plastic packaging if the product is not plastic)
- Verification takes seconds
- Pass/fail results are instant and objective
- May be verified at any point in the supply chain
- Data can be stored securely (blockchain or local device)
- Fast. Accurate. Non destructive. Impossible to fake or circumvent.

Products can be verified anywhere, using a d₂t I-R hand-held Quality Control device

d₂t Taggant is an inexpensive, drop-in solution to a growing problem. The taggant in the product is not degraded by handling, moisture, temperature variations, or direct sunlight.



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Symphony Environmental Ltd
6 Elstree Gate, Elstree Way, Borehamwood, Hertfordshire WD6 1JD, UK
Tel: +44 (0)20 8207 5900 | Fax: +44 (0)20 8207 7632 | info@d2p.net

www.d2p.net

