Case Study

Graphic Packaging INTERNATIONAL

Lockcon Secures Testing Kits with Tamper-Evident Box from Graphic Packaging

Lockcon AG manufactures tamper-proof testing kits for professional athletes and animal sports. Lockcon's secure containers transport blood and urine samples for doping tests at certified third-party laboratories. Based in Switzerland, Lockcon serves human and animal testing markets worldwide with its secure sample collection system.

Case Study summary: Performance | Convenience | Sustainability

Challenge

- **Security**
  The client required tamper-proof packaging that made manipulation attempts evident.
- **Convenience**
  The product needed to ensure easy handling when removing bottles and repackaging samples for safe transport to labs.
- **Sustainability**
  The client aimed for a fully recyclable, paper-based solution.

Solutions

- **Multiple Safety Features**
  Double safety locks, tamper-evident labels, and perforations make it impossible to open the box without visible damage.
- **Intelligent Structural Design**
  The integrated paperboard insert makes it easy to remove containers and secure test samples for transport.
- **Fully Coated Paperboard**
  Fully coated, bleached paperboard provides a sustainable alternative to plastic packaging.

Results

- **Reliable Performance**
  Secure packaging authenticates samples to protect against tampering for test results clients can trust.
- **User-Friendly Handling**
  Convenient packaging underpins Lockcon's simple, reliable sample collection process.
- **Responsible Resource Use**
  The recyclable paperboard solution uses fibre from responsibly managed forests.

Challenge

Regular blood and urine testing maintains the integrity of professional sports for humans and horses. Handling these sensitive samples requires the highest level of security to prevent tampering and manipulation. That's why Lockcon needed tamper-proof packaging to safely transport its testing kits—making it impossible to open the box without visible damage while still making it easy to remove and return the containers. Lockcon partnered with Graphic Packaging International (Graphic Packaging) to develop a reliable, sustainable packaging solution to meet these high standards.

Solution

Graphic Packaging collaborated with Lockcon to design a tamper-proof paperboard box to transport its testing kits securely. Made from a fully coated, bleached paperboard, the box offers a fully recyclable fibre-based solution that is as functional as it is user-friendly.

The intelligent design combines a special bottom and side wall construction with a double safety lock, various tear and grid perforations, and a tamper-evident label to protect against fraud. Any attempts to open the box will leave visible signs of tampering.

Yet these layered security features don't interfere with the convenience of Lockcon's sample collection system. Inside the box, an integrated paperboard inlay ensures easy handling of the containers while protecting the samples during transport to the testing lab.

Results

The tamper-evident packaging solution protects samples against manipulation, counterfeiting, and fraud—facilitating transparent anti-doping tests that athletes, fans, and doping control officers (DCOs) can trust.

Built-in security features make it impossible to open the testing kit box without leaving visible damage. Meanwhile, integrated design aspects ensure convenient bottle removal and return, allowing DCOs to safely send samples to the lab using the same outer packaging.

By combining fraud-proof functionality with user-friendly convenience, this innovative packaging underpins the simple, reliable sample collection process that Lockcon promises. Plus, the packaging offers all these benefits through a recyclable paperboard construction that enables responsible disposal after use.

With this advanced solution from Graphic Packaging, Lockcon ensures fair play by providing a testing system that's safe, secure, and sustainable.