Anti-counterfeiting and anti-piracy technology guide

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Ultra-Resistant Labels

Ultra-resistant labels are made out of very strong, tear-proof materials that can withstand extreme temperatures. They are often combined with 'hidden' security elements such as RFID tags, codes that are invisible to the human eye, etc. Their durability and adaptability mean they work well indoors, outdoors and in hostile environments, and are particularly well suited to sectors such as shipment, transport, outdoor storage and industrial machinery.

Used for

- Authentication
- Tracking/Tracing

Suitable for

- Very small products
- Small products
- Medium-sized products
- Large products

Goes on

- Product
- Packaging

Can be used for

- Physical products

Visibility

- Visible

Reading device needed

- Yes
- No

Connection to server

- Yes
- No

Description

Ultra-resistant labels can be made out of a wide range of special plastic materials, such as vinyl, nylon, polyester and polyethylene. These materials are able to withstand extreme temperatures (e.g. as low as - 40°C and as high as + 250°C), and are unaffected by solvents, detergents, oil, dirt, UV and seawater. Polyester and polyethylene are also elastic, so labels made out of these materials can stick to curved surfaces too. Non-plastic materials such as aluminium may also be used.

Uses

This technology is particularly suited to labelling heavy-duty equipment and freight containers, and for use as non-alterable hazard or warning signs. Labels that can resist very high temperatures (up to 250°C) are typically used on hot surfaces such as industrial machinery or furnaces.

Implementation

Implementing this technology will require changes to be made to the stage in the production process at which labels are attached to the product or packaging. As with other types of labels, partly or fully automated solutions are available for those ultra-resistant labels that do not need to be applied manually, depending on

the quantity to be applied.

Cost

The costs associated with ultra-resistant labels are usually fairly low. However, the costs will vary depending on the type of material you use.

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