UHF Label Optimized for Metal Item Tagging

Stora Enso’s Stripe UCODE 8 UHF label is designed for on-metal item level tagging in retail, industry, and pharmaceutical applications, just to name a few. It has excellent performance on diverse surfaces, especially on metallic objects like machine parts and metallic and metallized packages such as soda cans, snack bars and pouches as well as liquid carton packages.

The thin label structure and small size of Stripe is a cost efficient on-metal solution for unmanned retail, supply chain and asset management. The label has a partial adhesive coating which bonds it to the product leaving the remaining tab to flag out. When applied on a metal item, the attached part exploits the metal surface as part of the antenna structure to increase the performance of the tag. A 15 meters read distance can be achieved, depending on the geometry, size, and surroundings of the metal object.

Comparison between Stripe UCODE 8 and traditional on-metal tag types:

<table>
<thead>
<tr>
<th></th>
<th>Price</th>
<th>Performance</th>
<th>Printability</th>
<th>Thickness</th>
<th>Flexibility</th>
</tr>
</thead>
<tbody>
<tr>
<td>On-metal hard tag</td>
<td>★</td>
<td>***</td>
<td>★★</td>
<td>★</td>
<td>★★</td>
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<tr>
<td>On-metal label</td>
<td>★★</td>
<td>★</td>
<td>★★</td>
<td>★★</td>
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<tr>
<td>Stripe</td>
<td>★★★</td>
<td>★★★</td>
<td>★★★</td>
<td>★★★</td>
<td>★★★</td>
</tr>
</tbody>
</table>

Applications
- Industry
- Retail
- Pharma
Key features of Stripe

**Designed for hard-to-tag items**

Radio waves can be subject to interference by metal, liquid products, consistency of goods or the packaging material. This affects the tag performance and can lead to a shorter read distance or totally non-readable tag. Stripe label will partly adhere to e.g. a metallic product. The adhered part then uses the metal surface as part of the antenna structure and enhances the performance of the tag. The thin label and small form enable the use of Stripe in small items in retail applications as well as tagging of small metallic industrial tools and parts without compromising read performance.

**Featuring UCODE 8**

The auto adjust feature of UCODE 8 is also evident on the Stripe inlay. This feature guarantees consistent performance across a variety of dielectrics and frequency ranges even in rapidly changing environments. The Stripe labels are compatible with RFID printers for easy printing and encoding.

Technical details

**Sales Code**
500010

**IC & electrical details**

- NXP’s UCODE 8
- 128 bit EPC
- 860 - 960 MHz
- EPC Gen2v2, ISO 18000-63

**Size**

- Paper Tag size 43 x 21 mm / 1.69 x 0.83 in
- Web width
- 46 mm

**Operating temperature**

-5 °C…+60 °C / +23 °F…+140 °F

**Delivery details**

- 76 mm / 3 in core
- 5 000 pcs/reel, 40 000 pcs/box
- 1 year shelf life in +20 °C / 68 °F, 50 % RH

Contact us for more information:

www.storaenso.com/intelligentpackaging

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